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HARMAN/BECKER
AUTOMOTIVE SYSTEMS

Service Manual

Version 1.0 - deutsch

Audio 10 ECE Typ 6021

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- Testprogramm
- Diebstahlsicherung
- Technische Daten
- Ersatzteile

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Technische Änderungen vorbehalten
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Bestell-Nr. 1385.607

Testprogramm

1 und 2	gleichzeitig drücken →	BRA BECKER	Becker-Testmode ist aufgerufen
3	1 mal drücken →	SIG 10 89.5	z. B. 10 = Feldstärke z. B. 89.5 = Frequenz (MHz)
3	2 mal drücken →	VLT 6.4 12.9	Anzeige: minimale bzw. maximale Spannungswerte
3	3 mal drücken →	TYP 6021	Anzeige: Gerätetyp
3	4 mal drücken →	SER Y1025168	Anzeige: Seriennummer
3	5 mal drücken →	HW 04/01	Anzeige: aktueller Hardwarestand
3	6 mal drücken →	SW 08/01	Anzeige: aktueller Softwarestand
3	7 mal drücken →	DSP 210699 FC	Sahara Softwarestand

3	8 mal drücken	AMP STANDARD	angeschlossene Verstärker
3	9 mal drücken	SOL V03B0AT0A	SOL = Sollwert V03 = Lautstärkeeinstellung (00-2F mögliche Einstellungen durch Drehen des Lautstärkereglers); B0A = Bass Mittelstellung; T0A = Treble Mittelstellung
4	1 mal drücken	SOL F0A BAL0A	F0A = Fader Mittelstellung; BAL0A = Balance Mittelstellung
4	2 mal drücken	IST V03B0AT0A	IST = Istwert V03 = Lautstärkeeinstellung (00-2F mögliche Einstellungen durch Drehen des Lautstärkereglers); B0A = Bass Mittelstellung; T0A = Treble Mittelstellung
4	3 mal drücken	IST F0A BAL0A	F0A = Fader Mittelstellung; BAL0A = Balance Mittelstellung
4	4 mal drücken	LST V42B40T40	LST = letzte Lautstärkeänderung V42 = letzte Lautstärkeänderung B40 = Bass Mittelwert; T40 = Treble Mittelwert
4	5 mal drücken	LST F40 BAL40	F40 = Fader Mittelwert; BAL40 = Balance Mittelwert
3	10 mal drücken	GAL G:00 V:00	Anzeigewerte für GAL
3	11 mal drücken	PRG P:00	interne Testprogramme
3	12 mal drücken	DSR CNT:00	interne Testprogramme
3	13 mal drücken	END	Testprogramm Ende

Diebstahlsicherung über Baureihenkennung

Die Geräte haben keinen Code, sind aber über den CAN-Bus mit dem Fahrzeug verheiratet. Das Radiogerät erhält über den CAN-Bus eine Baureihencodierung, diese wird beim Einschalten des Gerätes überprüft. Ist diese Kennung nicht vorhanden, so geht das Radio in den PROD Mode und ist nicht mehr bedienbar. Stimmen die Kennungen mit den Daten im EEPROM überein ist das Radio funktionsfähig.
Die „Verheiratung“ von Baureihe und Fahrzeug wird extern über den IS-Tester vorgenommen. Werksintern kann das Radio über eine spezielle Software und Hardwarekomponente freigeschaltet werden.

Technische Daten

Wellenbereiche:	FM 87,5 MHz - 108 MHz AM 531 kHz - 1620 kHz LW 153 kHz - 282 kHz SW 5800 kHz - 6250 kHz
Senderspeicher:	je 8 Stationsspeicher in FM, je 4 Stationsspeicher in MW, LW und KW
Übertragungsbereich:	50 Hz - 20 kHz bei CD - Betrieb 30 Hz - 15 kHz bei FM 50 Hz - 2,5 kHz bei AM, LW, SW
EON-Funktion:	
Regionalisierung:	ein- und ausschaltbar
Autostore:	FM, MW, LW
Ausgangsleistung:	4 x 15 Watt
Lautsprecherimpedanz:	min. 4 Ohm
GAL:	fix definierte Anhebung der Lautstärke
Antenne:	Impedanz 50 Ohm
Telefon Mute:	Low aktiv Pegel < 2 Volt
Versorgungsspannung:	12 Volt
Soundsystem:	Anschluß nur über D2B Optical Schnittstelle
CD Anschluß:	Es lassen sich nur MB CD - Wechsler mit D2B Optical-Schnittstelle anschließen.
Abspielbare CD's:	Es können nur CD's die der DIN EN 60908 entsprechen verwendet werden. Der Einsatz von 8 cm CD's mit Adapter ist nicht zu empfehlen

Blockschaltbild
Main Board 4010 2

Konnektor
Konnektorblock (Board 4040-08HJ) 3
Konnektor-Interface (Board 4010-21KM) 4

Power supply
3,3V, 5VD, 5VG, 9VG, (Board 4010-21KM) 5

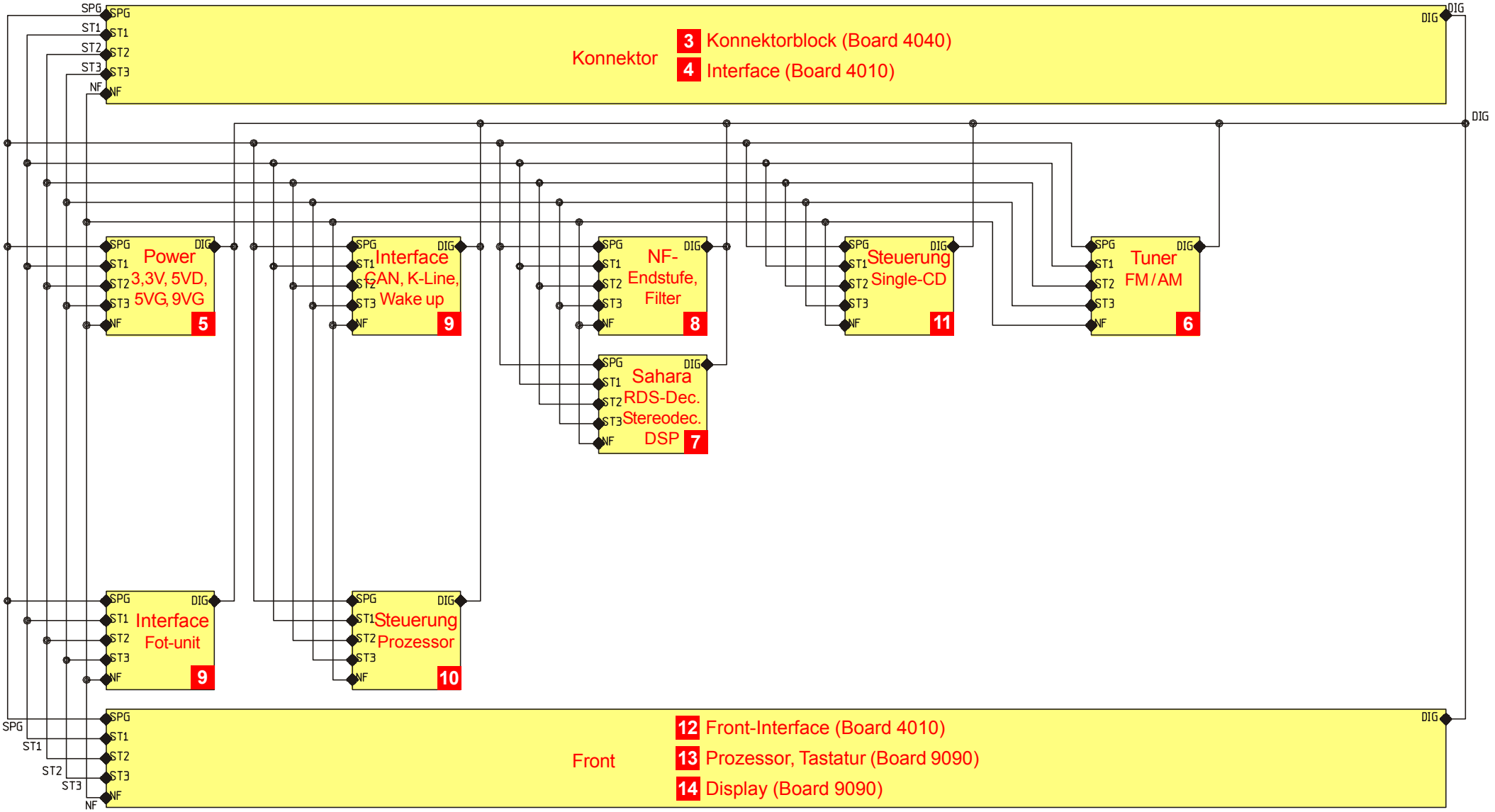
Tuner
FM und AM (Board 4010-21KM) 6

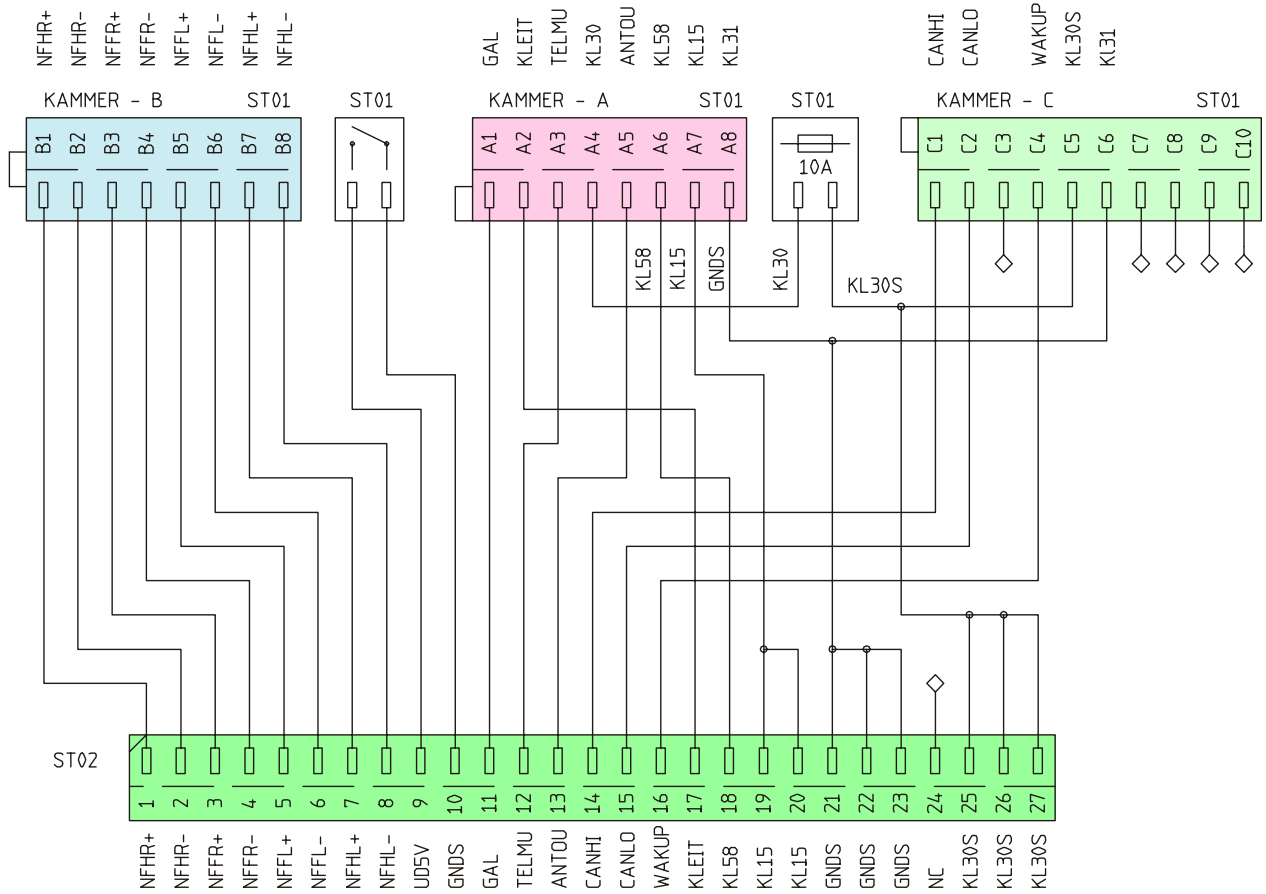
NF-Teil
DSP, RDS/Stereo-Dekoder, u.a. (4010-21KM) 7
NF-Filter und NF-Endstufe (Board 4010-21KM) 8

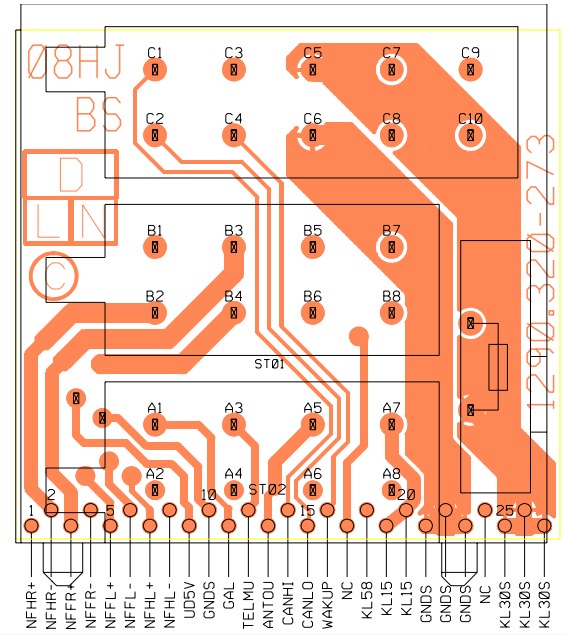
Interface
CAN, K-Line, Tel.-Mute,
D2B-Wake up, Fot-unit (4010-21KM) 9

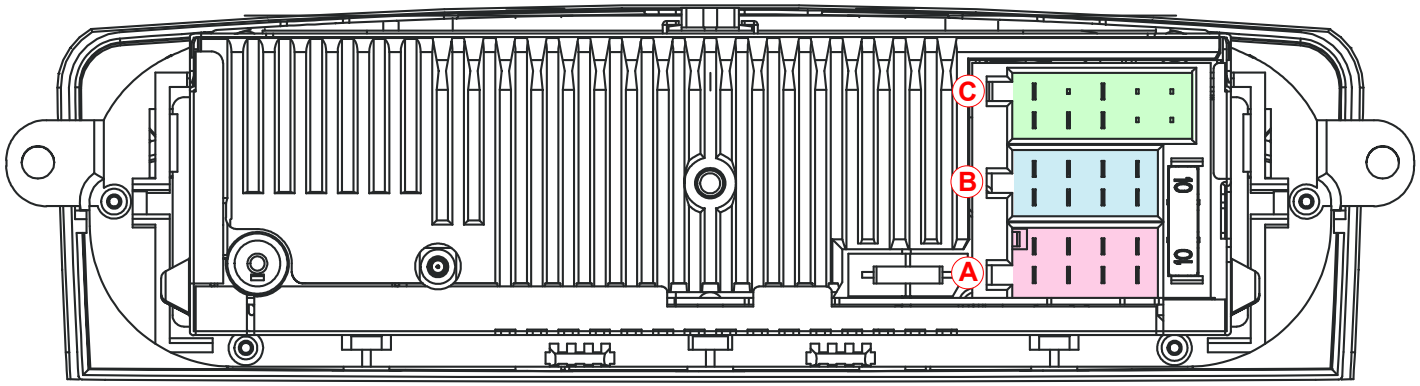
Steuerung
Prozessor (Board 4010-21KM) 10
CD-Steuerung (Board 4010-21KM) 11

Front
Front-Interface (Board 4010-21KM) 12
Prozessor, Tastatur (Board 9090-30DL) 13
Display (Board 9090-30DL) 14

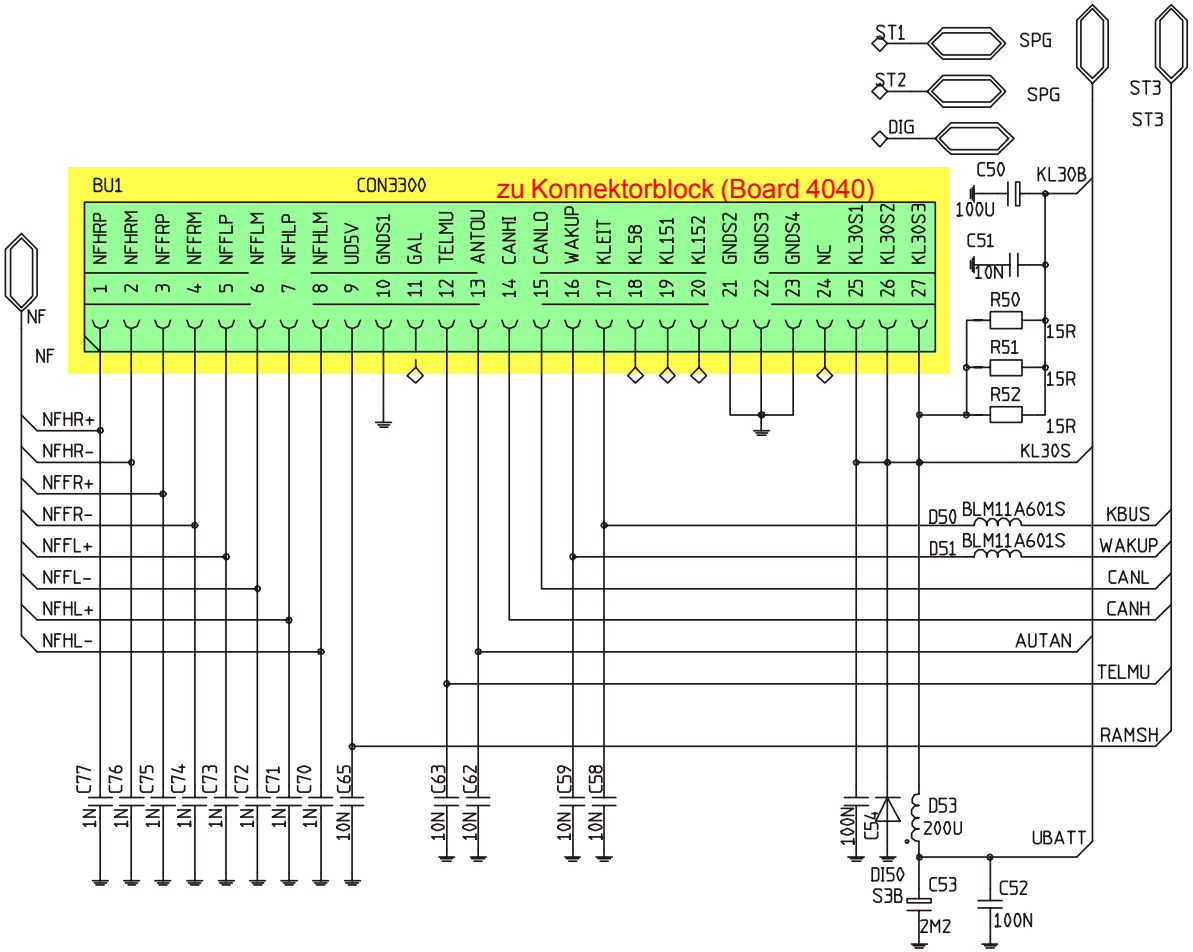

SPG
ST1
ST2
ST3
NF
DIG
Konnektor
3 Konnektorblock (Board 4040)
4 Interface (Board 4010)
Power
3,3V, 5VD, 5VG, 9VG
5
Interface
CAN, K-Line, Wake up
9
NF-
Endstufe, Filter
8
Sahara
RDS-Dec.
Stereodec.
DSP
7
Steuerung
Single-CD
11
Tuner
FM / AM
6
Interface
Fot-unit
9
Steuerung
Prozessor
10
Front
12 Front-Interface (Board 4010)
13 Prozessor, Tastatur (Board 9090)
14 Display (Board 9090)

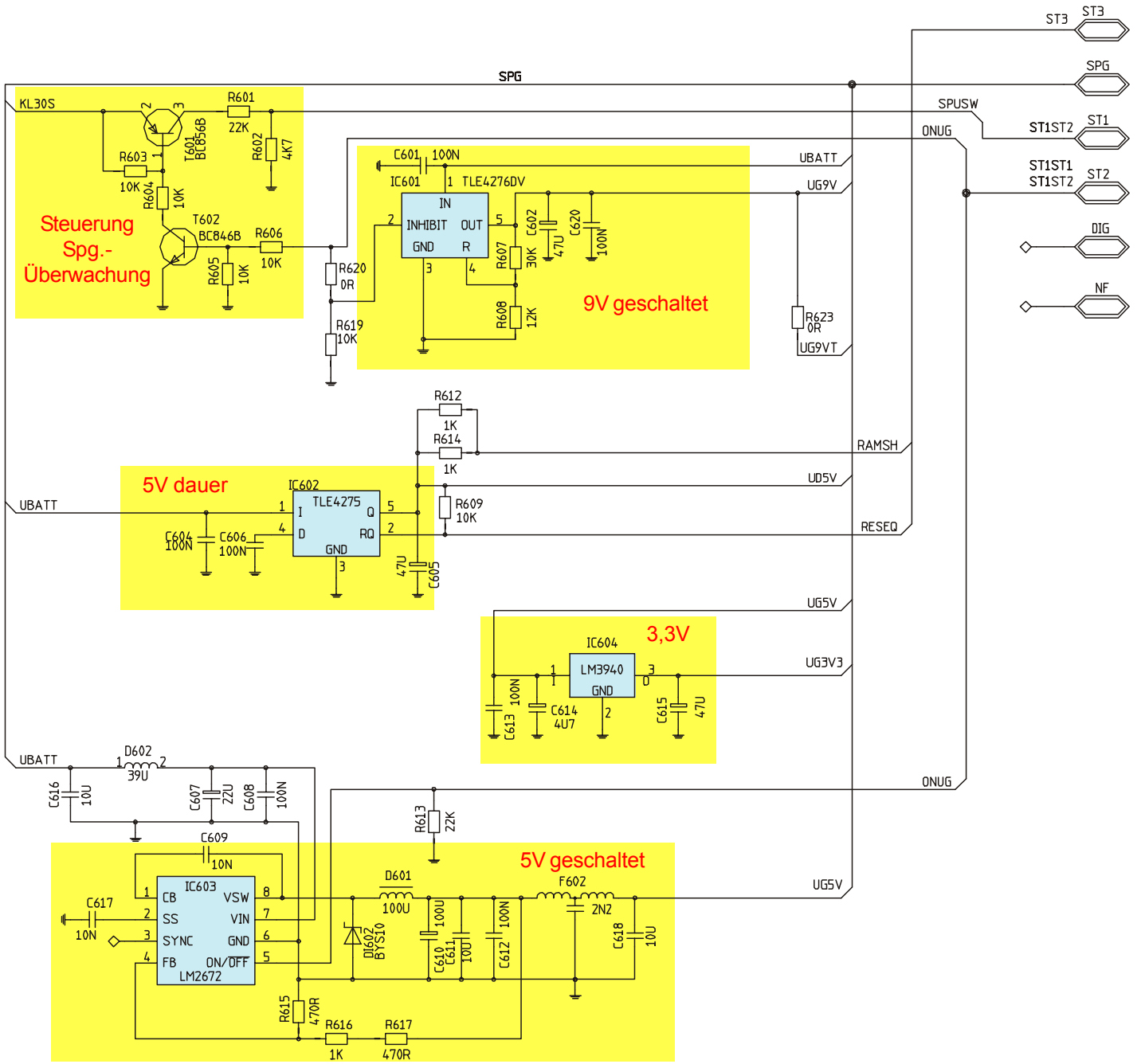

NFHR+ NFHR- NFFR+ NFFR- NFFL+ NFFL- NFHL+ NFHL-
KAMMER - B
ST01
B1 B2 B3 B4 B5 B6 B7 B8
ST01
GAL KLEIT TELMU KL30 ANTOU KL58 KL15 KL31
KAMMER - A
ST01
A1 A2 A3 A4 A5 A6 A7 A8
ST01
10A
CANHI CANLO WAKUP KL30S KL31
KAMMER - C
ST01
C1 C2 C3 C4 C5 C6 C7 C8 C9 C10
KL58 KL15 GNDS KL30 KL30S
ST02
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27
NFHR+ NFHR- NFFR+ NFFR- NFFL+ NFFL- NFHL+ NFHL- UD5V GNDS GAL TELMU ANTOU CANHI CANLO WAKUP KLEIT KL58 KL15 KL15 GNDS GNDS GNDS NC KL30S KL30S KL30S

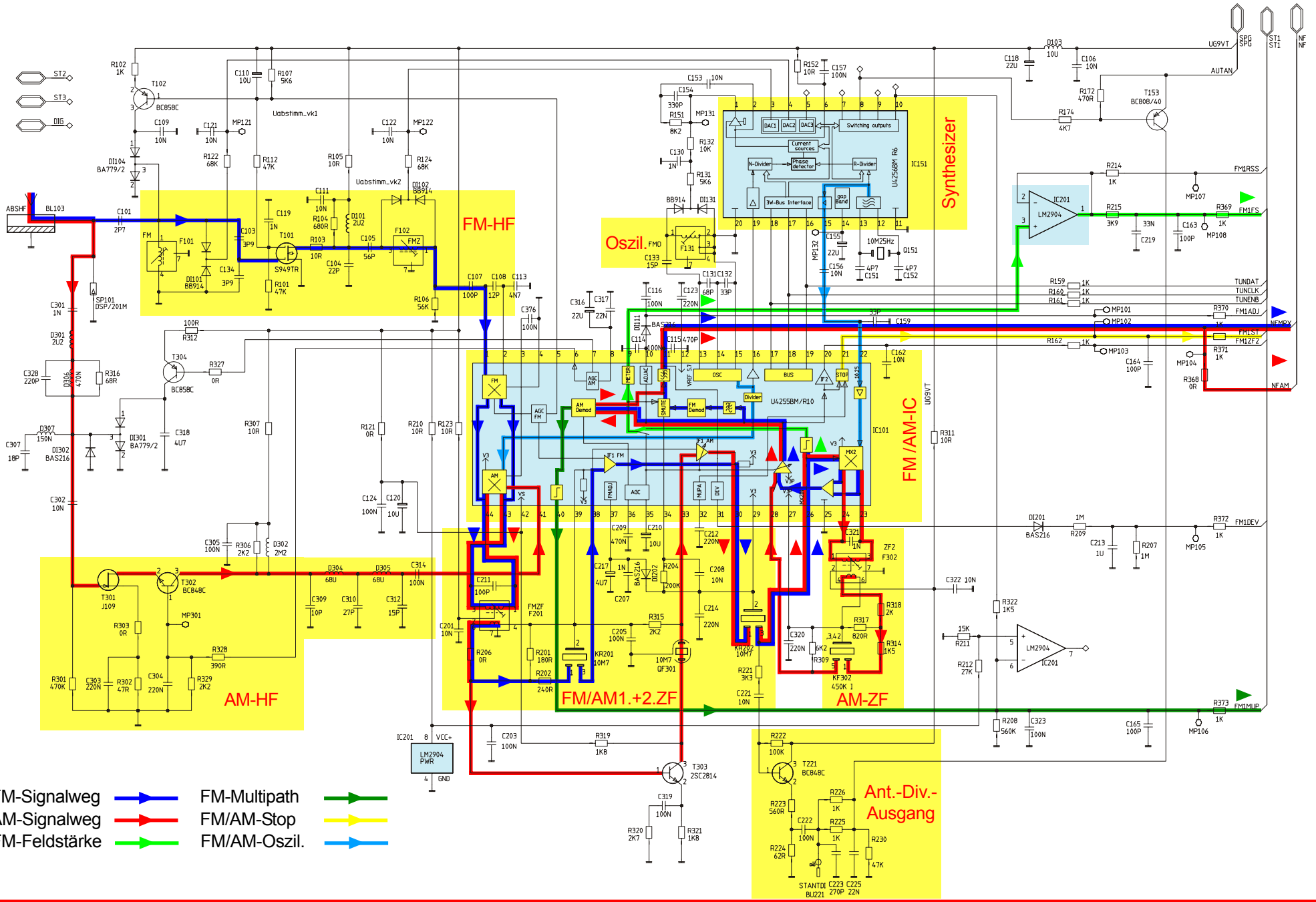

Ø8HJ
B5
D
LIN
C
C1 C3 C5 C7 C9
C2 C4 C6 C8 C10
B1 B3 B5 B7
B2 B4 B6 B8
ST01
A1 A3 A5 A7
A2 A4 A6 A8
ST02
1 2 5 10 15 20 25
1290.320-273
NFHR+ NFHR- NFFR+ NFFR- NFFL+ NFFL- NFHL+ NFHL- UD5V GNDS GAL TELMU ANTOU CANHI CANLO WAKUP NC KL58 KL15 KL15 GNDS GNDS GNDS NC KL30S KL30S KL30S

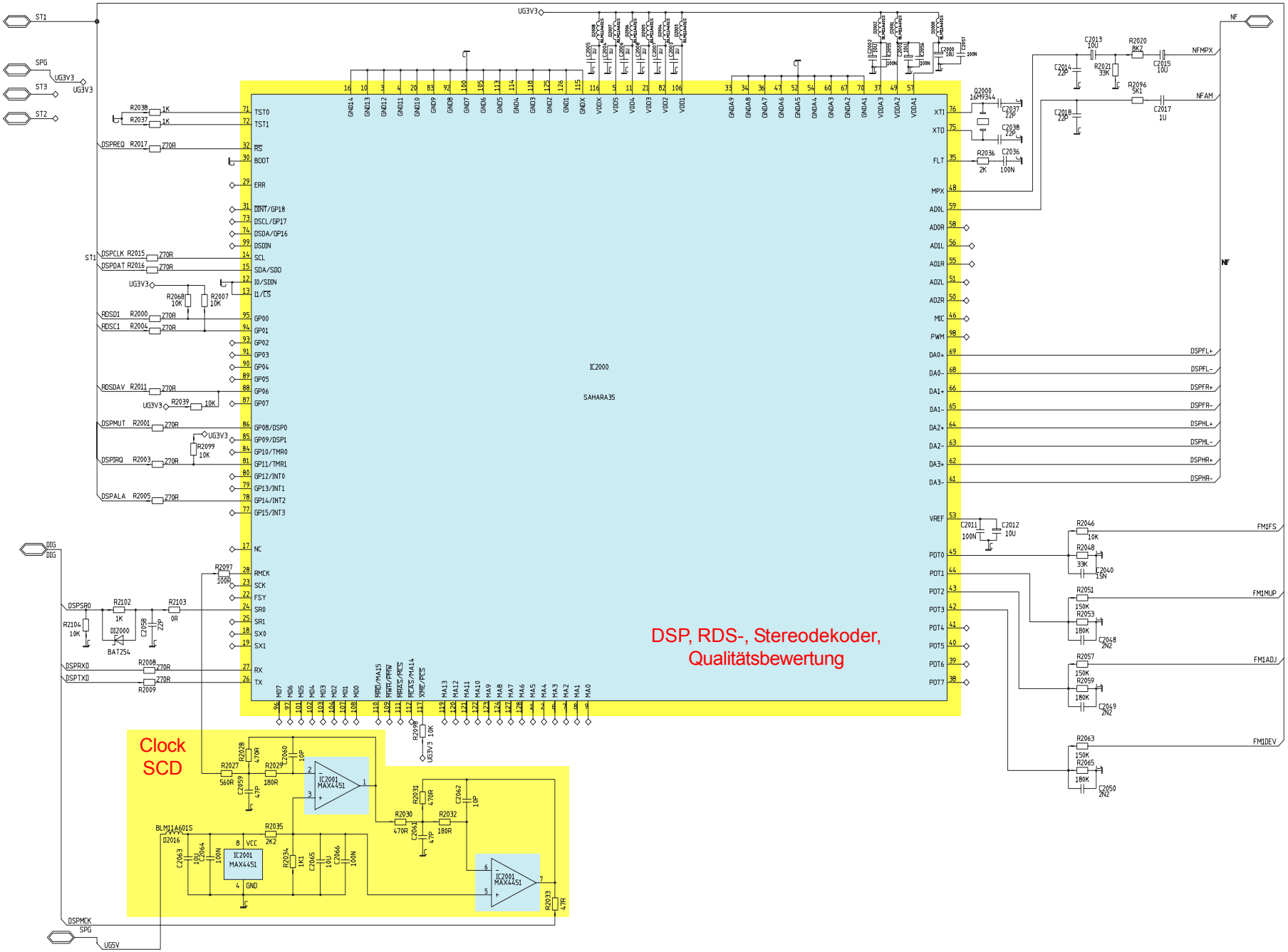


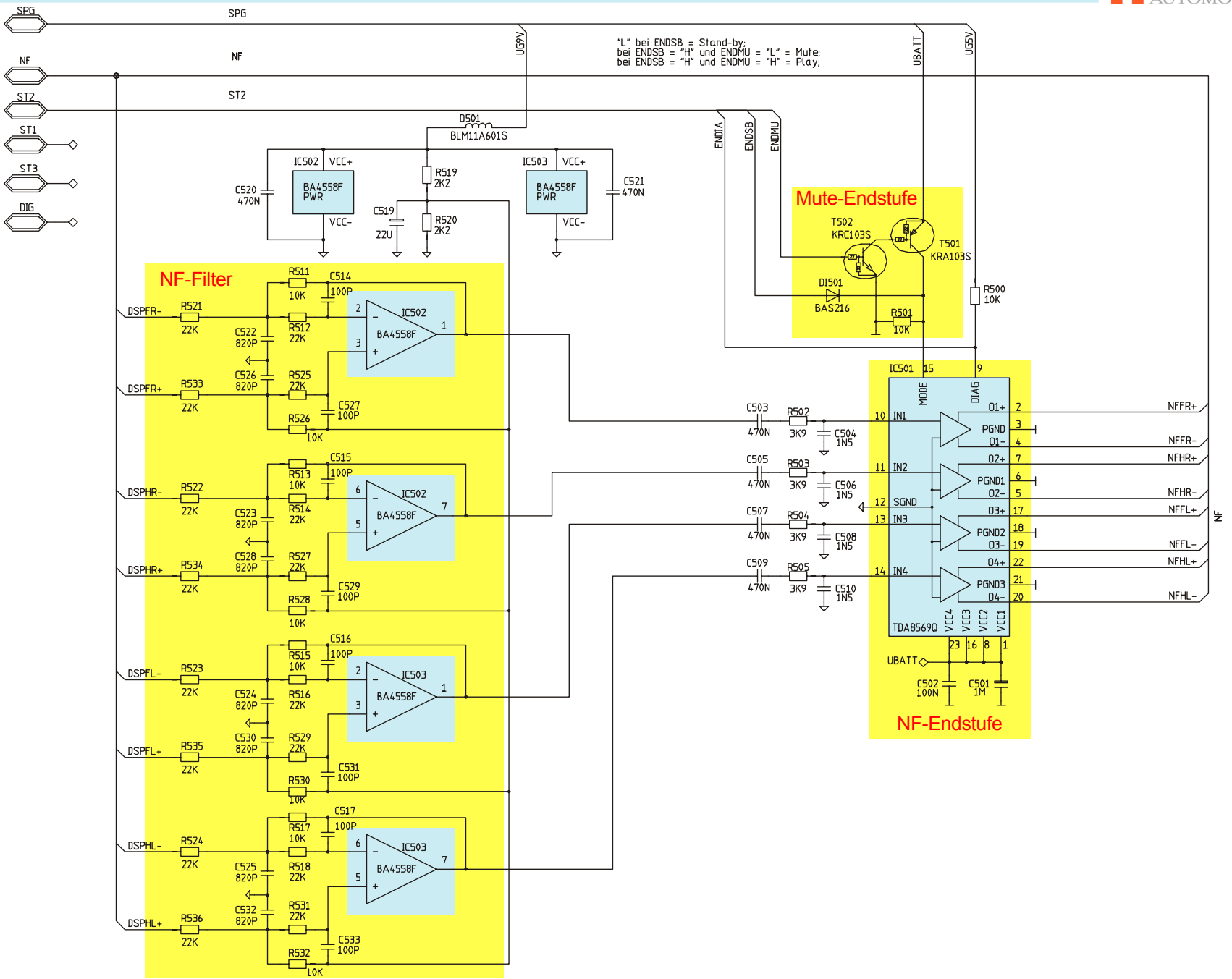
PIN	Kammer (A)	Kammer (B)	Kammer (C)
1		Lautsprecher Heck rechts+	CAN-High
2	K-Leitung	Lautsprecher Heck rechts -	CAN-Low
3	Telefon-Mute	Lautsprecher Front rechts+	
4	KL30 Batterie	Lautsprecher Front rechts -	Wake up-Leitung
5	Steuer-ausgang12V	Lautsprecher Front links+	Ubatt. (KL30) nach Sicherung
6		Lautsprecher Front links -	KL31 Masse
7		Lautsprecher Heck links+	
8	KL31 Masse	Lautsprecher Heck links -	

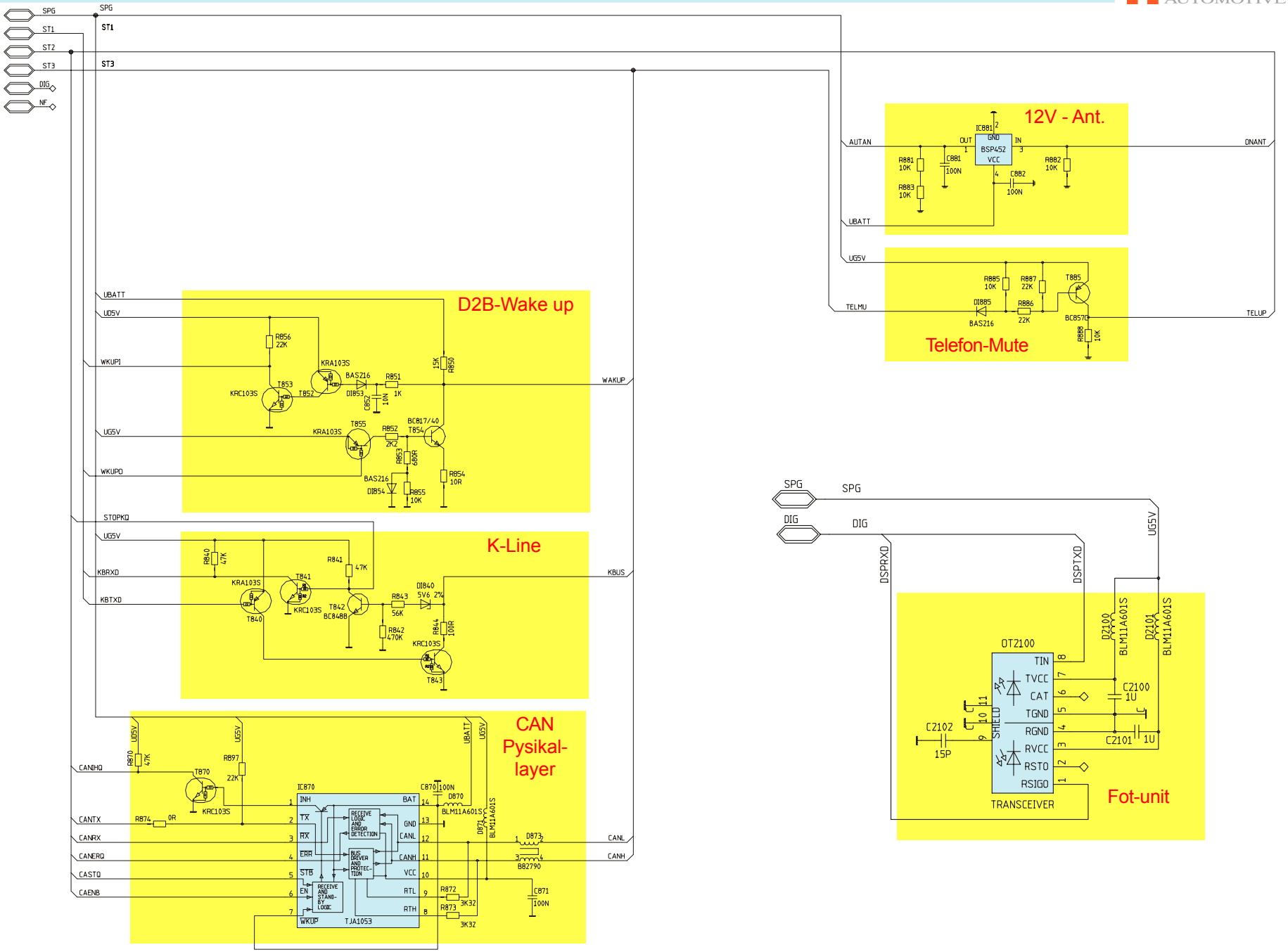

BU1
CON3300
zu Konnektorblock (Board 4040)
NFHRP
NFHRM
NFFRP
NFFRM
NFFLP
NFFLM
NFHLP
NFHLM
UD5V
GNDS1
GAL
TELMU
ANTOU
CANHI
CANLO
WAKUP
KLEIT
KL58
KL151
KL152
GNDS2
GNDS3
GNDS4
NC
KL30S1
KL30S2
KL30S3
ST1
SPG
ST2
SPG
DIG
ST3
ST3
C50
100U
KL30B
C51
10N
R50
15R
R51
15R
R52
15R
KL30S
NF
NF
NFHR+
NFHR-
NFFR+
NFFR-
NFFL+
NFFL-
NFHL+
NFHL-
D50 BLM11A601S
D51 BLM11A601S
KBUS
WAKUP
CANL
CANH
AUTAN
TELMU
RAMSH
C77 1N
C76 1N
C75 1N
C74 1N
C73 1N
C72 1N
C71 1N
C70 1N
C65 10N
C63 10N
C62 10N
C59 10N
C58 10N
100N
C54
D53
200U
UBATT
DI50
S3B
C53
2M2
C52
100N

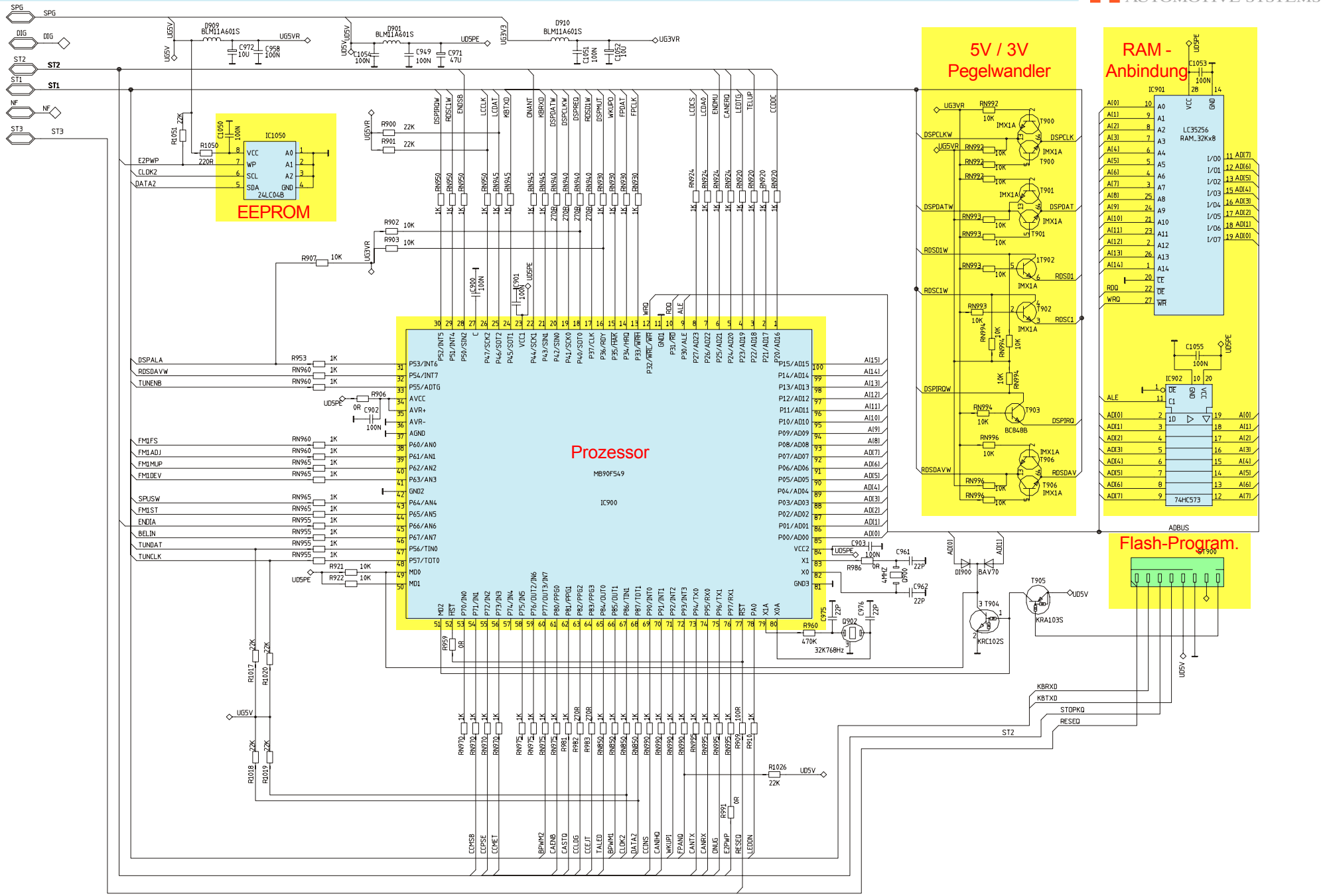

ST3
SPG
SPUSW
ONUG
ST1ST2
ST1
ST1ST1
ST1ST2
ST2
DIG
NF
KL30S
R601
22K
T601
BC856B
R603
10K
R604
10K
R602
4K7
T602
BC846B
R606
10K
R605
10K
Steuerung
Spg.-
Überwachung
C601
100N
IC601
TLE4276DV
IN
INHIBIT
OUT
GND
R
UBATT
UG9V
C602
47U
C620
100N
R607
30K
R608
12K
9V geschaltet
R620
0R
R619
10K
R623
0R
UG9VT
R612
1K
R614
1K
RAMSH
5V dauer
IC602
TLE4275
I
Q
D
RQ
GND
UD5V
R609
10K
RESEQ
UBATT
C604
100N
C606
100N
47U
C605
UG5V
3,3V
IC604
LM3940
GND
UG3V3
C613
100N
C614
4U7
C615
47U
UBATT
D602
39U
C616
10U
C607
22U
C608
100N
ONUG
R613
22K
C609
10N
5V geschaltet
IC603
CB
VSW
SS
VIN
SYNC
GND
FB
ON/OFF
LM2672
C617
10N
D601
100U
F602
2N2
D1602
BYS10
C610
100U
C611
10U
C612
100N
C618
10U
R615
470R
R616
1K
R617
470R
UG5V

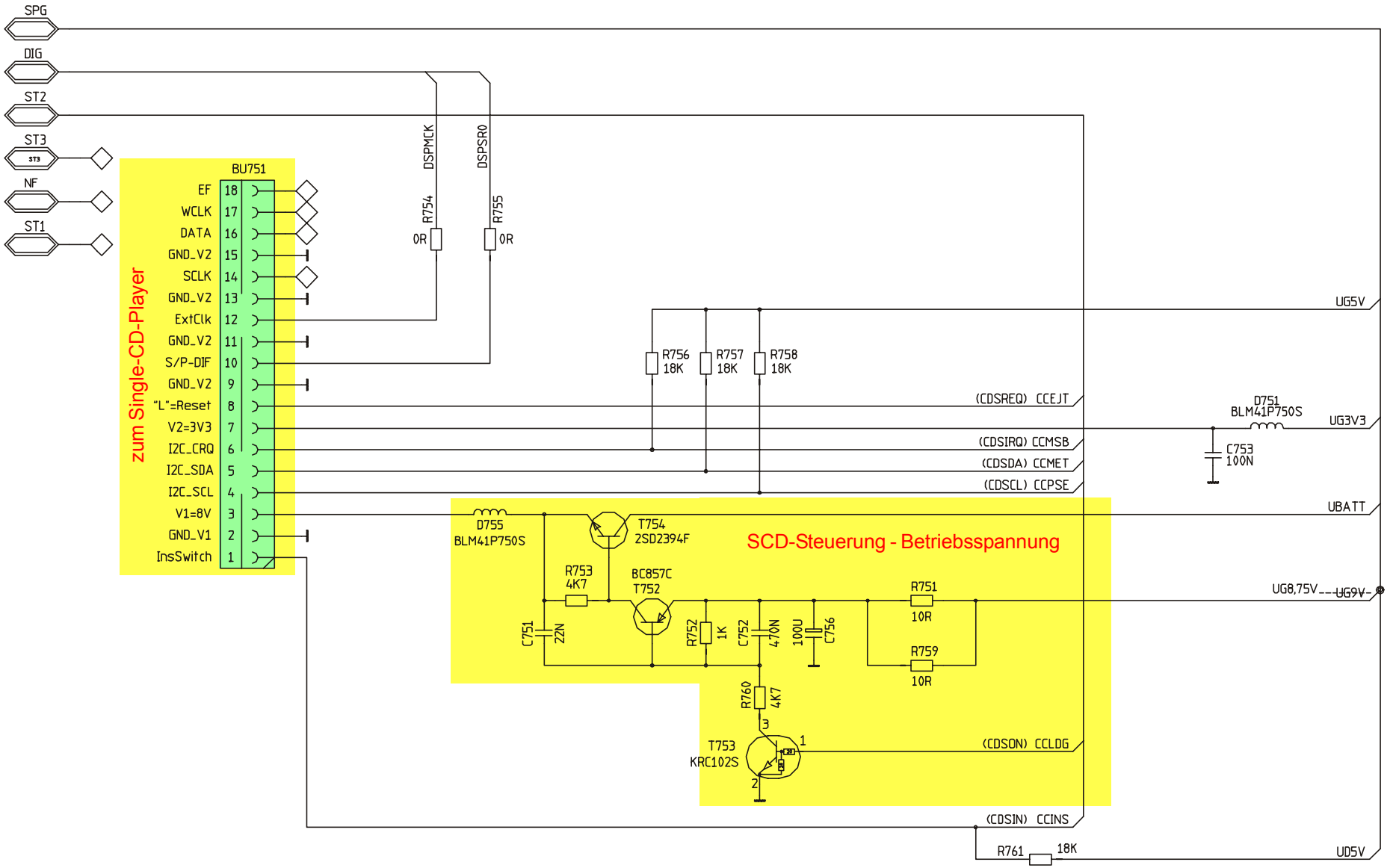

FM-HF
Oszil.
Synthesizer
FM/AM-IC
AM-HF
FM/AM1.+2.ZF
AM-ZF
Ant.-Div.-Ausgang
FM-Signalweg
AM-Signalweg
FM-Feldstärke
FM-Multipath
FM/AM-Stop
FM/AM-Oszil.

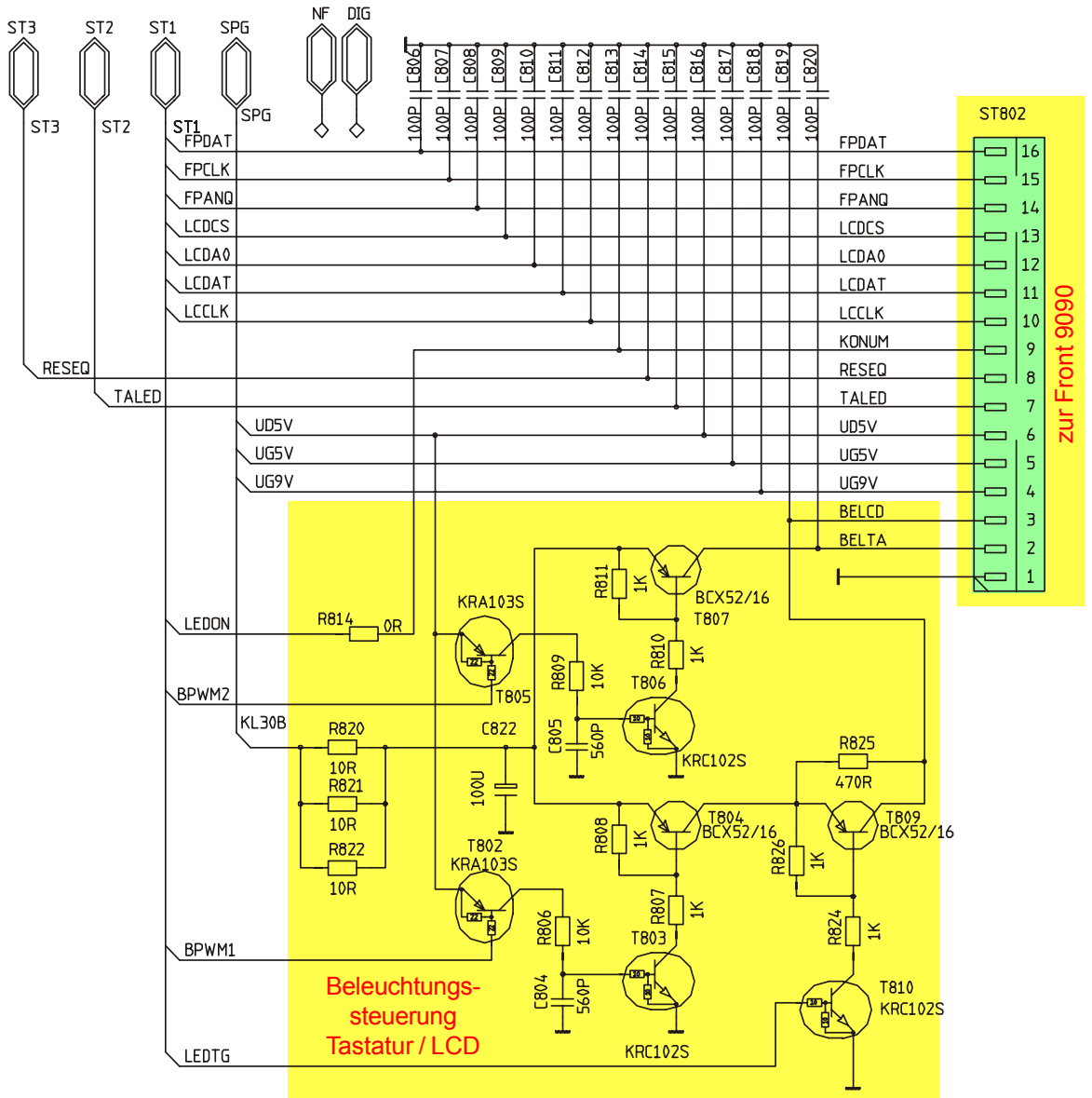

IC2000
SAHARA35
DSP, RDS-, Stereodekoder,
Qualitätsbewertung
Clock
SCD
IC2001
MAX4451
BAT254
BLM11A601S

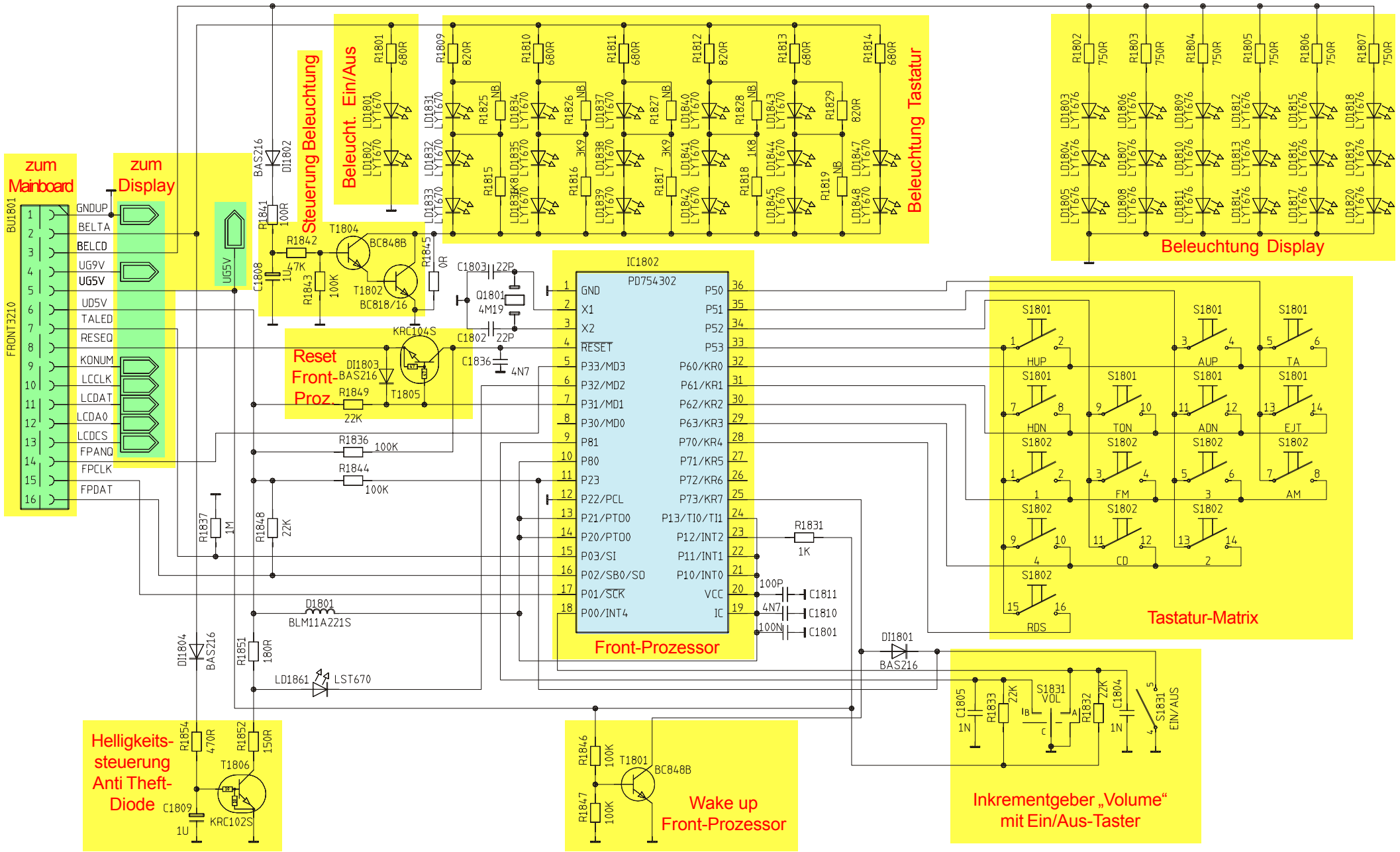

SPG
NF
ST2
ST1
ST3
DIG
"L" bei ENDSB = Stand-by;
bei ENDSB = "H" und ENDMU = "L" = Mute;
bei ENDSB = "H" und ENDMU = "H" = Play;
UG9V
UBATT
UG5V
D501
BLM11A601S
ENDIA
ENDSB
ENDMU
IC502
IC503
VCC+
VCC-
BA4558F PWR
C520 470N
C521 470N
C519 22U
R519 2K2
R520 2K2
Mute-Endstufe
T502 KRC103S
T501 KRA103S
DI501 BAS216
R500 10K
R501 10K
NF-Filter
DSPFR-
DSPFR+
DSPHR-
DSPHR+
DSPFL-
DSPFL+
DSPHL-
DSPHL+
R521 22K
R522 22K
R523 22K
R524 22K
R533 22K
R534 22K
R535 22K
R536 22K
R511 10K
R512 22K
R513 10K
R514 22K
R515 10K
R516 22K
R517 10K
R518 22K
R525 22K
R526 10K
R527 22K
R528 10K
R529 22K
R530 10K
R531 22K
R532 10K
C514 100P
C515 100P
C516 100P
C517 100P
C522 820P
C523 820P
C524 820P
C525 820P
C526 820P
C527 100P
C528 820P
C529 100P
C530 820P
C531 100P
C532 820P
C533 100P
IC501
MODE
DIAG
TDA8569Q
IN1
IN2
IN3
IN4
SGND
PGND
PGND1
PGND2
PGND3
O1+
O1-
O2+
O2-
O3+
O3-
O4+
O4-
VCC4
VCC3
VCC2
VCC1
C503 470N
C504 1N5
C505 470N
C506 1N5
C507 470N
C508 1N5
C509 470N
C510 1N5
R502 3K9
R503 3K9
R504 3K9
R505 3K9
C502 100N
C501 1M
NFFR+
NFFR-
NFHR+
NFHR-
NFFL+
NFFL-
NFHL+
NFHL-
NF
NF-Endstufe

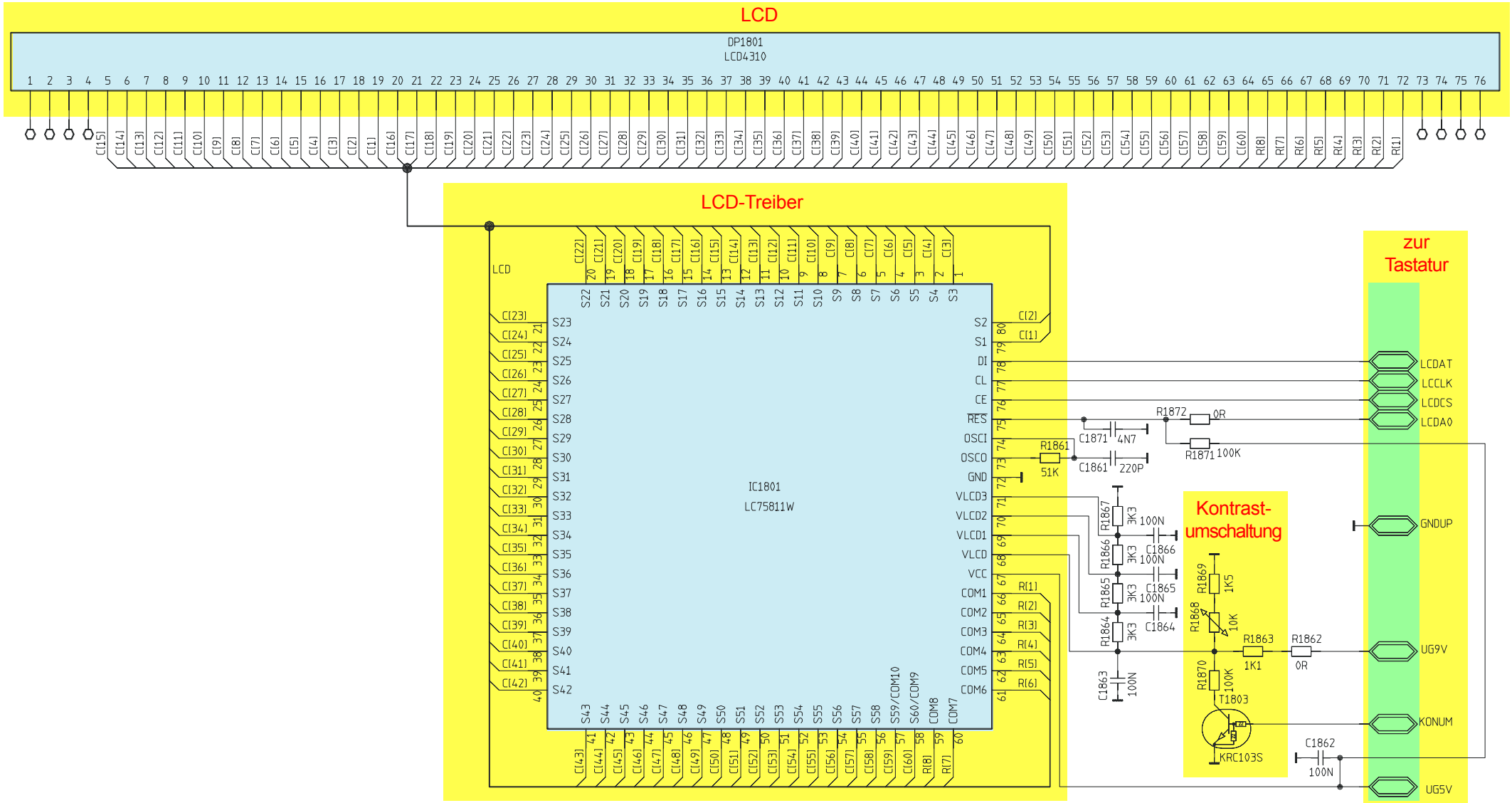

SPG
ST1
ST2
ST3
DIG
NF
12V - Ant.
AUTAN
ONANT
UBATT
UG5V
TELMU
TELUP
BAS216
Telefon-Mute
D2B-Wake up
WKUP1
WKUPO
WAKUP
KRA103S
KRC103S
BAS216
BC817/40
BC847C
STOPKO
KBRXD
KBTXD
KBUS
K-Line
KRA103S
KRC103S
BC848B
5V6 2%
CANHQ
CANTX
CANRX
CANERQ
CASTQ
CAENB
CANL
CANH
CAN Pysikal-layer
IC870
TJA1053
B82790
SPG
DIG
DSPRXD
DSPTXD
UG5V
OTZ2100
BLM11A601S
TRANSCEIVER
SHIELD
C2102
15P
C2100
1U
C2101
1U
Fot-unit


EEPROM
Prozessor
MB90F549
IC900
5V / 3V Pegelwandler
RAM - Anbindung
Flash-Program.
IC1050
24LC04B
IC901
LC35256 RAM_32Kx8
IC902
74HC573
BC848
BAV70
KRA103S
KRC102S
32K768Hz
DSPALA
RDSDAVW
TUNENB
FM1FS
FM1ADJ
FM1MUP
FM1DEV
SPUSW
FM1ST
ENDIA
BELIN
TUNDAT
TUNCLK
E2PWP
CLOK2
DATA2
KBRXD
KBTXD
STOPKQ
RESEQ
ADBUS


SPG
DIG
ST2
ST3
NF
ST1
BU751
EF 18
WCLK 17
DATA 16
GND_V2 15
SCLK 14
GND_V2 13
ExtClk 12
GND_V2 11
S/P-DIF 10
GND_V2 9
"L"=Reset 8
V2=3V3 7
I2C_CRQ 6
I2C_SDA 5
I2C_SCL 4
V1=8V 3
GND_V1 2
InsSwitch 1
zum Single-CD-Player
DSPMCK
DSPSRO
R754 0R
R755 0R
R756 18K
R757 18K
R758 18K
UG5V
(CDSREQ) CCEJT
(CDSIRQ) CCMSB
(CDSDA) CCMET
(CDSCL) CCPSE
D751 BLM41P750S
UG3V3
C753 100N
UBATT
D755 BLM41P750S
T754 ZSD2394F
SCD-Steuerung - Betriebsspannung
R753 4K7
BC857C T752
R751 10R
UG8,75V
UG9V
C751 22N
R752 1K
C752 470N
100U C756
R759 10R
R760 4K7
T753 KRC102S
(CDSON) CCLDG
(CDSIN) CCINS
R761 18K
UD5V


ST3
ST2
ST1
SPG
NF
DIG
C806
C807
C808
C809
C810
C811
C812
C813
C814
C815
C816
C817
C818
C819
C820
100P
FPDAT
FPCLK
FPANQ
LCDCS
LCDA0
LCDAT
LCCLK
KONUM
RESEQ
TALED
UD5V
UG5V
UG9V
BELCD
BELTA
ST802
zur Front 9090
LEDON
BPWM2
KL30B
BPWM1
LEDTG
R814
0R
KRA103S
T805
R809
10K
C805
560P
R811
1K
BCX52/16
T807
R810
T806
KRC102S
R820
10R
R821
R822
C822
100U
T802
R808
T804
R825
470R
T809
R826
R824
R806
R807
T803
C804
T810
Beleuchtungs-
steuerung
Tastatur / LCD


zum Mainboard
zum Display
BU1801
FRONT3210
GNDUP
BELTA
BELCD
UG9V
UG5V
UD5V
TALED
RESEQ
KONUM
LCCLK
LCDAT
LCDA0
LCDCS
FPANQ
FPCLK
FPDAT
Steuerung Beleuchtung
Beleucht. Ein/Aus
Beleuchtung Tastatur
Beleuchtung Display
IC1802
PD754302
Front-Prozessor
Reset Front-Proz.
Tastatur-Matrix
Helligkeits-steuerung Anti Theft-Diode
Wake up Front-Prozessor
Inkrementgeber „Volume“ mit Ein/Aus-Taster
S1831 VOL
S1831 EIN/AUS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LCD-Treiber
IC1801
LC75811W
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LCDAT
LCCLK
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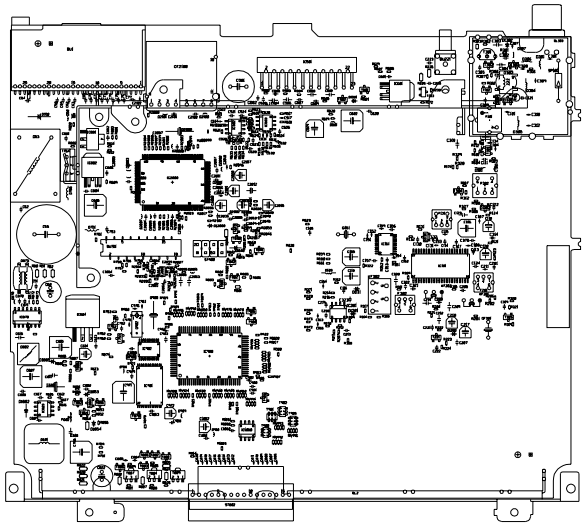
UG9V
KONUM
UG5V
KRC103S
T1803

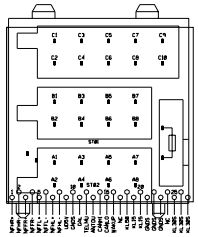
4010 Mainboard

Mainboard - bs - 21KM 2



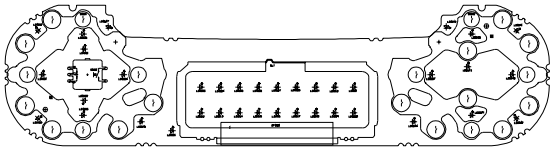
4040 Konnektor

Konnektor - bs - 08HJ 3

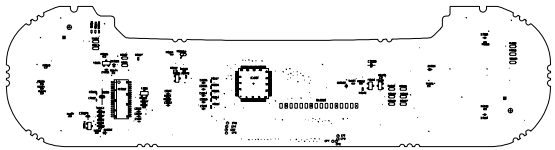


9090 Front

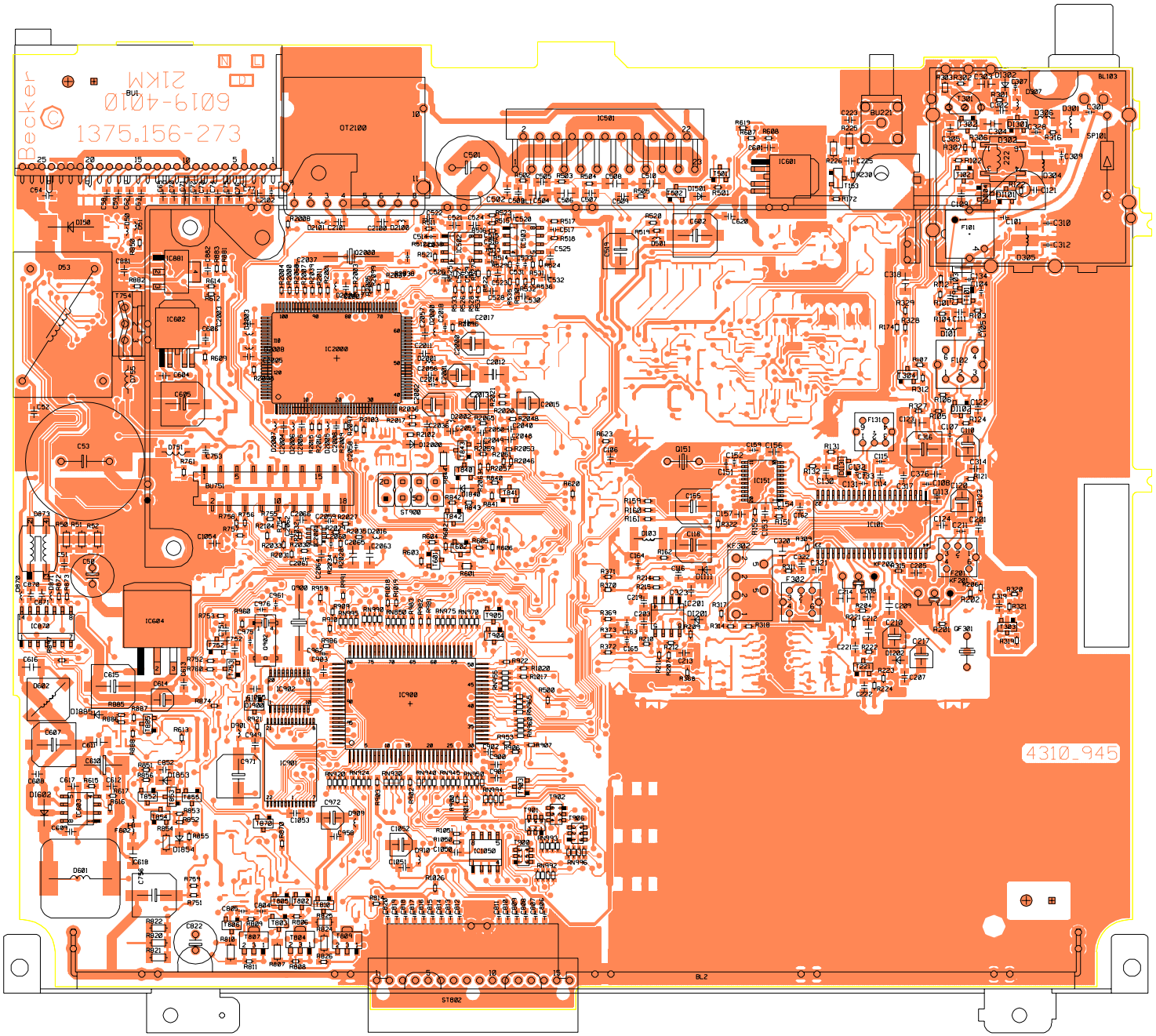
Front - bs/ls - 30DL 4



Bestückungsseite



Lötseite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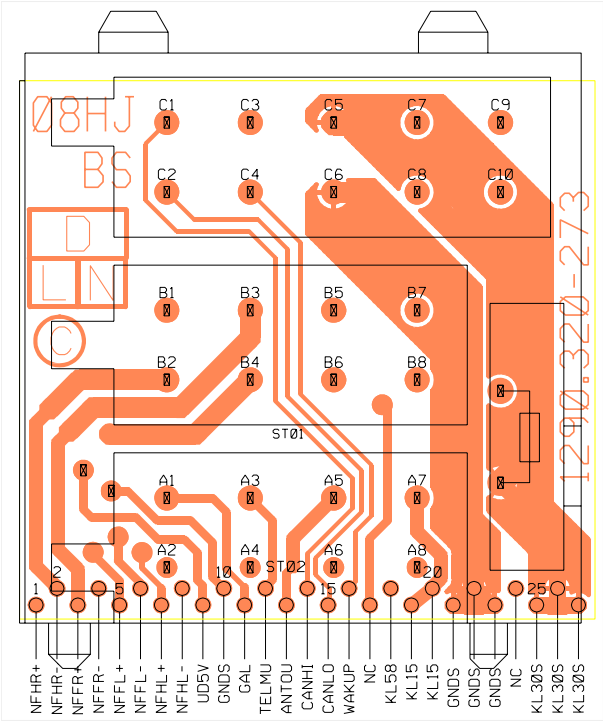
Ø8HJ
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NFHR-
NFFR+
NFFR-
NFFL+
NFFL-
NFHL+
NFHL-
UD5V
GNDS
GAL
TELMU
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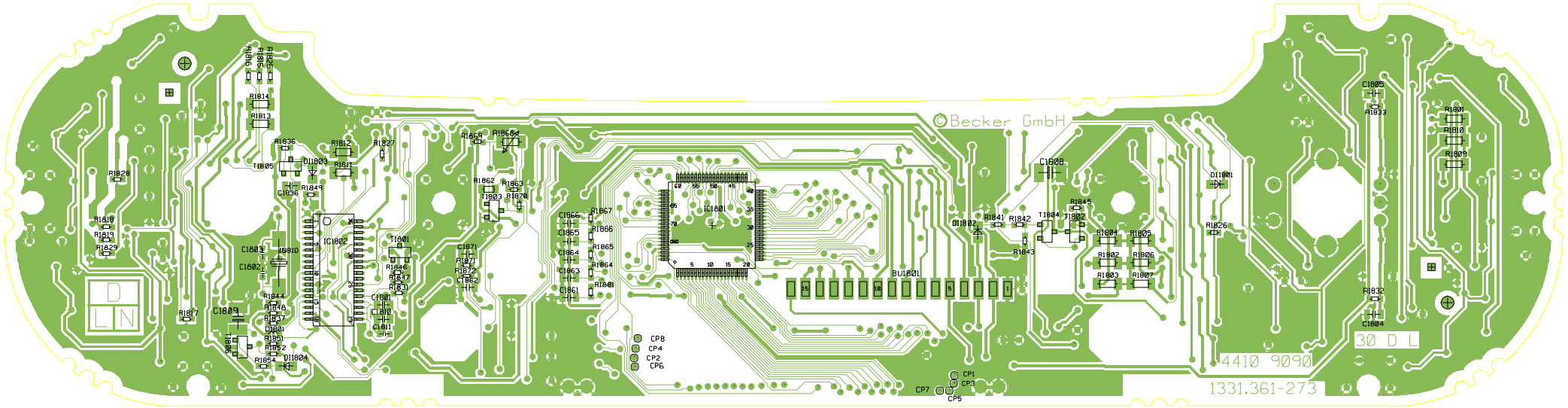

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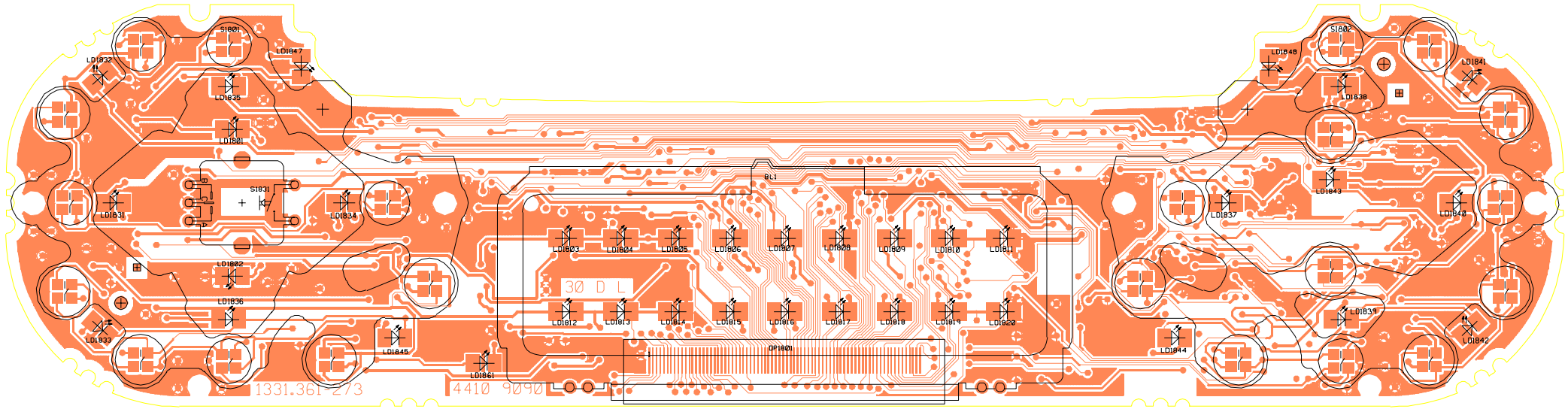

Bestückungsseite

Pos.	Best.-Nr.	Benennung
1	1311204	CHASSIS
2	1329499	WÄRMELEITKISSEN
3	1311212	DECKEL, CHASSIS
4	1310895	STIRNWAND WGR 11418
5	1246909	KUEHLKOERPER 3310 WGR11318
6	1271997	SCHUTZKAPPE -D2B HEADER- AMP 969 272-2
7	1246917	IC-HALTER
8	1248316	ZB RAHMEN, ABSCHIRM-HF- M.ANT.BUCHSE
9	1278916	ZB CONNECTOR 21 POL D&R K37000300
10	1311360	CD PLAYER SINGLE DIGITAL PHI CDM-M3/4.8D
11		BEDIENAUFSATZ (NICHT KPL LIEFERBAR)
12	1310925	ZB ZIERBLENDE, CD 4410
13	1363107	PCB 9090 FRONT ASSY+BS
14	1363115	TASTE, AUSSCHUB
15	1363131	TASTE, STUMM
16	1363158	TASTE, KLANG
17	1363174	TASTE, FM
18	1363182	TASTE, AM
19	1363190	TASTE, CD
20	1363204	TASTENKREUZ SUCHLAUF
21	1363220	TASTENKREUZ STATIONSTASTEN
22	1363239	TASTE, RDS
23	1318276	TRAVERSE
24	1311001	KONTAKTMATTE, LI CD 4410
25	1311018	KONTAKTMATTE, RE CD 4410
26	1310798	AKTUATOR, CC/CD WGR 11419
27	1310968	REFLEKTOR VMT 4410
28	1310879	DREHKNOPF MRT
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C105	1231014	KEKO-CH 56P J NP0 0603 BAW SPE0030A315
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C1051	1246348	KEKO-CH 100N K X7R 0805 BAW SPE0035A315
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C114	1246348	KEKO-CH 100N K X7R 0805 BAW SPE0035A315

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C2006	1283499	KEKO-CH 1U K X7R 0805 10V MUR GRM 40
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C2014	1223951	KEKO-CH 22P J NP0 0603 BAW SPE0030A315
C2015	1275879	ALKO-CH 10U M 16V I G BAW SPE0162A312
C2017	1283499	KEKO-CH 1U K X7R 0805 10V MUR GRM 40
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C53	1290282	AL-ELKO 2M2 M 25V G BAW SPE0084A312RM7,5
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C607	1313037	ALKO-CH 22U M 35V I G BAW SPE0165A312
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C609	1119125	KEKO-CH 10N K X7R 0805 BAW SPE0015A315
C610	1249630	TAKO-CH 100U M D G 10V SNPB SIE B45197-A
C611	1351990	KEKO-CH 10U Z Y5V 1206 10V BAW SPE55A315
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C614	1307797	ALKO-CH 4U7 M 25V I G BAW SPE0164A312
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C756	1306138	ALKO-CH 100U M 16V I G SAW 7KSSC1CCB107M
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C804	1270540	KEKO-CH 560P J NPO 0603 50V MUR GRM39
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C812	1234536	KEKO-CH 100P J NP0 0603 BAW SPE0030A315
C813	1234536	KEKO-CH 100P J NP0 0603 BAW SPE0030A315
C814	1234536	KEKO-CH 100P J NP0 0603 BAW SPE0030A315
C815	1234536	KEKO-CH 100P J NP0 0603 BAW SPE0030A315
C816	1234536	KEKO-CH 100P J NP0 0603 BAW SPE0030A315
C817	1234536	KEKO-CH 100P J NP0 0603 BAW SPE0030A315
C818	1234536	KEKO-CH 100P J NP0 0603 BAW SPE0030A315
C819	1234536	KEKO-CH 100P J NP0 0603 BAW SPE0030A315
C820	1234536	KEKO-CH 100P J NP0 0603 BAW SPE0030A315
C822	1229974	AL-ELKO 100U M 25V I G BAW SPE0108 RM2,5
C852	1119125	KEKO-CH 10N K X7R 0805 BAW SPE0015A315
C870	1246348	KEKO-CH 100N K X7R 0805 BAW SPE0035A315
C871	1246348	KEKO-CH 100N K X7R 0805 BAW SPE0035A315
C881	1246348	KEKO-CH 100N K X7R 0805 BAW SPE0035A315
C882	1246348	KEKO-CH 100N K X7R 0805 BAW SPE0035A315
C900	1246348	KEKO-CH 100N K X7R 0805 BAW SPE0035A315
C901	1246348	KEKO-CH 100N K X7R 0805 BAW SPE0035A315
C902	1246348	KEKO-CH 100N K X7R 0805 BAW SPE0035A315
C903	1246348	KEKO-CH 100N K X7R 0805 BAW SPE0035A315
C949	1246348	KEKO-CH 100N K X7R 0805 BAW SPE0035A315
C958	1246348	KEKO-CH 100N K X7R 0805 BAW SPE0035A315
C961	1223951	KEKO-CH 22P J NP0 0603 BAW SPE0030A315
C962	1223951	KEKO-CH 22P J NP0 0603 BAW SPE0030A315
C971	1312154	ALKO-CH 47U M 25V I G NCC MV F60
C972	1275879	ALKO-CH 10U M 16V I G BAW SPE0162A312
C975	1223951	KEKO-CH 22P J NP0 0603 BAW SPE0030A315
C976	1223951	KEKO-CH 22P J NP0 0603 BAW SPE0030A315
D101	1178237	DROSSEL-CH 2,2UH K G SIE B82422-A1222-K
D103	1289950	DROSSEL-CH 10UH K G SIE B82432-A1103-K
D1801	1227221	INDUCTOR-CH G MUR BLM11A221S
D2000	1305591	INDUCTOR-CH G MUR BLM11A601S
D2001	1305591	INDUCTOR-CH G MUR BLM11A601S
D2002	1305591	INDUCTOR-CH G MUR BLM11A601S
D2003	1305591	INDUCTOR-CH G MUR BLM11A601S
D2004	1305591	INDUCTOR-CH G MUR BLM11A601S
D2005	1305591	INDUCTOR-CH G MUR BLM11A601S
D2006	1305591	INDUCTOR-CH G MUR BLM11A601S
D2007	1305591	INDUCTOR-CH G MUR BLM11A601S
D2008	1305591	INDUCTOR-CH G MUR BLM11A601S

D2016	1305591	INDUCTOR-CH G MUR BLM11A601S
D2100	1305591	INDUCTOR-CH G MUR BLM11A601S
D2101	1305591	INDUCTOR-CH G MUR BLM11A601S
D301	1178237	DROSSEL-CH 2,2UH K G SIE B82422-A1222-K
D302	1249398	DROSSEL-CH 2,2MH K G MSI C6-R/3333
D304	1245368	DROSSEL-CH 68UH K G SIE B82432-S1683-K
D305	1245368	DROSSEL-CH 68UH K G SIE B82432-S1683-K
D306	1148494	DROSSEL-CH 0,47UH J G SIE B82422-A3471-J
D307	1292706	DROSSEL-CH 150 NH K G SIE B82498-B3151-K
D50	1305591	INDUCTOR-CH G MUR BLM11A601S
D501	1305591	INDUCTOR-CH G MUR BLM11A601S
D51	1305591	INDUCTOR-CH G MUR BLM11A601S
D53	1244922	DROSSEL,BATT.- 200UH VOG 5730409900
D601	1297570	DROSSEL-CH 100UH M G SUM CDRH 125
D602	1306030	DROSSEL-CH 39UH M G MSI C6-K
D751	1305484	INDUCTOR-CH G MUR BLM41P750S
D755	1305484	INDUCTOR-CH G MUR BLM41P750S
D870	1305591	INDUCTOR-CH G MUR BLM11A601S
D871	1305591	INDUCTOR-CH G MUR BLM11A601S
D873	1245104	DROSSEL-CH 51UH N 0,5A G SIE B82790
D901	1305591	INDUCTOR-CH G MUR BLM11A601S
D909	1305591	INDUCTOR-CH G MUR BLM11A601S
D910	1305591	INDUCTOR-CH G MUR BLM11A601S
DI101	1217186	DIODE-CH SIE BB914 G
DI102	1217186	DIODE-CH SIE BB914 G
DI104	1229788	DIODE-CH BAW BA779-2/1SV234/DPA05 G SPE
DI111	1252143	DIODE-CH PHI BAS216 G
DI131	1217186	DIODE-CH SIE BB914 G
DI1801	1345532	DIODE-CH ROH 1SS355
DI1802	1345532	DIODE-CH ROH 1SS355
DI1803	1345532	DIODE-CH ROH 1SS355
DI1804	1345532	DIODE-CH ROH 1SS355
DI2000	1281054	DIODE-CH SCHOTTKY PHI BAT 254 G
DI201	1252143	DIODE-CH PHI BAS216 G
DI202	1252143	DIODE-CH PHI BAS216 G
DI301	1229788	DIODE-CH BAW BA779-2/1SV234/DPA05 G SPE
DI302	1252143	DIODE-CH PHI BAS216 G
DI50	1179683	DIODE-CH GIC S3B G
DI501	1252143	DIODE-CH PHI BAS216 G
DI602	1292161	DIODE-CH SCHOTTKY TEL BYS 10-35 G
DI840	1076353	DIODE-CH BAW 5V6 2% SHIP-TO-STOCK G SPE0
DI853	1252143	DIODE-CH PHI BAS216 G
DI854	1252143	DIODE-CH PHI BAS216 G
DI885	1252143	DIODE-CH PHI BAS216 G
DI900	0672475	DIODE-CH BAW BAV70 SHIP-TO-STOCK G SPE00
F101	1295004	FILT.,FMZ-100MHZ TOK MC122 E528ENAS-A014
F102	1253395	FILTER, FMZ- 100MHZ TOK/P666SNS-256Z-RT

F131	1340700	FILTER,AMO/FMO 120MHZ TOK T369INS-A416RT
F201	1328931	FILTER,FM-ZF - 10,7MHZ MSI M5-F1/33303
F302	1247115	FILTER, AM-ZF- 450KHZ TOK 5PAG (C805LN-0
F602	1276654	FILT-CH 2N2+-50 25V G MUR NFM60R30T222T1
IC101	1346581	IC-CH TEL U4255BM-AFN G3 DATE CODE 94X
IC1050	1225162	IC-CH AMC 24LC04BT-I/SN G
IC151	1347111	IC-CH TEL U4256BM-NFSG3 DATECODE 09/22
IC1801	1331256	IC-CH SAY LC75811W-1331.256 (8717HS)
IC1802	1299662	IC-CH NEC UPD 754302-3200-04/98
IC2000	1333720	IC-CH PHI SAHARA 35 SQFP128
IC2001	1356496	IC-CH MAX MAX4451EKA-T G
IC201	1277057	IC-CH NSC LM2904 M
IC501	1271180	IC PHI TDA8569Q /N1
IC502	1226312	IC-CH ROH BA4558F-DX G
IC503	1226312	IC-CH ROH BA4558F-DX G
IC601	1322680	IC-CH SIE TLE 4276 DV P-TO252-5-1
IC602	1319914	IC-CH SIE TLE4275D P-TO252-5-1
IC603	1298674	IC-CH NSC LM2672M-ADJ
IC604	1297546	IC-CH NSC LM 3940 ISX-3.3
IC870	1343432	IC-CH PHI TJA1054 G
IC881	1240481	IC-CH SIE BSP452 G
IC900	1355074	IC-CH FUJ MB90F549 G
IC901	1294334	IC-CH SAY LC35256FT-70U
IC902	1294490	IC-CH PHI 74HC573 PW,118-TSSOP20
KF201	1357972	K-FILT MUR SFE 10,7MHZ MS3A10GJ28-S-TF21
KF202	1357972	K-FILT MUR SFE 10,7MHZ MS3A10GJ28-S-TF21
KF302	1237713	KERA-FILTER MUR CFWS 450 IT
LD1801	1375830	LED-CH VSY TLMY3143 QB (8 - 12.5)
LD1802	1375830	LED-CH VSY TLMY3143 QB (8 - 12.5)
LD1803	1375873	LED-CH VSY TLME3143 UB (50 - 80)
LD1804	1375873	LED-CH VSY TLME3143 UB (50 - 80)
LD1805	1375873	LED-CH VSY TLME3143 UB (50 - 80)
LD1806	1375873	LED-CH VSY TLME3143 UB (50 - 80)
LD1807	1375873	LED-CH VSY TLME3143 UB (50 - 80)
LD1808	1375873	LED-CH VSY TLME3143 UB (50 - 80)
LD1809	1375873	LED-CH VSY TLME3143 UB (50 - 80)
LD1810	1375873	LED-CH VSY TLME3143 UB (50 - 80)
LD1811	1375873	LED-CH VSY TLME3143 UB (50 - 80)
LD1812	1375873	LED-CH VSY TLME3143 UB (50 - 80)
LD1813	1375873	LED-CH VSY TLME3143 UB (50 - 80)
LD1814	1375873	LED-CH VSY TLME3143 UB (50 - 80)
LD1815	1375873	LED-CH VSY TLME3143 UB (50 - 80)
LD1816	1375873	LED-CH VSY TLME3143 UB (50 - 80)
LD1817	1375873	LED-CH VSY TLME3143 UB (50 - 80)
LD1818	1375873	LED-CH VSY TLME3143 UB (50 - 80)
LD1819	1375873	LED-CH VSY TLME3143 UB (50 - 80)
LD1820	1375873	LED-CH VSY TLME3143 UB (50 - 80)

LD1831	1375830	LED-CH VSY TLMY3143 QB (8 - 12.5)
LD1832	1375830	LED-CH VSY TLMY3143 QB (8 - 12.5)
LD1833	1375830	LED-CH VSY TLMY3143 QB (8 - 12.5)
LD1834	1375830	LED-CH VSY TLMY3143 QB (8 - 12.5)
LD1835	1375830	LED-CH VSY TLMY3143 QB (8 - 12.5)
LD1836	1375830	LED-CH VSY TLMY3143 QB (8 - 12.5)
LD1837	1375830	LED-CH VSY TLMY3143 QB (8 - 12.5)
LD1838	1375830	LED-CH VSY TLMY3143 QB (8 - 12.5)
LD1839	1375830	LED-CH VSY TLMY3143 QB (8 - 12.5)
LD1840	1375830	LED-CH VSY TLMY3143 QB (8 - 12.5)
LD1841	1375830	LED-CH VSY TLMY3143 QB (8 - 12.5)
LD1842	1375830	LED-CH VSY TLMY3143 QB (8 - 12.5)
LD1843	1375830	LED-CH VSY TLMY3143 QB (8 - 12.5)
LD1844	1375830	LED-CH VSY TLMY3143 QB (8 - 12.5)
LD1845	1375830	LED-CH VSY TLMY3143 QB (8 - 12.5)
LD1847	1375830	LED-CH VSY TLMY3143 QB (8 - 12.5)
LD1848	1375830	LED-CH VSY TLMY3143 QB (8 - 12.5)
LD1861	1158767	LED-CH SIE LST670 G -RT
OT2100	1248121	TRANSCEIVER AMP 966893 D2BOPTICAL-HEADER
Q151	1280279	QUARZ 10,250 MHZ G NDK AT-51 M.ISOPL.
Q1801	1171501	KERA-RESON-CH MUR CSAC 4,19 MGCA G
Q2000	1305492	QUARZ-CH 16,9344 MHZ NDK AT-41CD2
Q900	1368257	QUARZ-CH 4,000MHZ NDK AT-51CD2
Q902	1332937	QUARZ-CH 32,768KHZ SEP MC-306-EX
QF301	1323768	QUARZ-FILTER 10,7MHZ NDK 10U7,5A
R101	1254332	MEGWI-CH 47K F 0603 G BAW SPE0028A323
R1017	1297058	MEGWI-CH 22K F 0603 G BAW SPE0028A323
R1018	1297058	MEGWI-CH 22K F 0603 G BAW SPE0028A323
R1019	1297058	MEGWI-CH 22K F 0603 G BAW SPE0028A323
R102	1304445	MEGWI-CH 1K F 0603 BAW SPE0028A323
R1020	1297058	MEGWI-CH 22K F 0603 G BAW SPE0028A323
R1026	1297058	MEGWI-CH 22K F 0603 G BAW SPE0028A323
R103	1304161	MEGWI-CH 10R F 0603 BAW SPE0027A323
R104	1304429	MEGWI-CH 680R F 0603 BAW SPE0027A323
R105	1304161	MEGWI-CH 10R F 0603 BAW SPE0027A323
R1050	1304348	MEGWI-CH 220R F 0603 BAW SPE0027A323
R1051	1297058	MEGWI-CH 22K F 0603 G BAW SPE0028A323
R106	1271199	MEGWI-CH 56K F 0603 G BAW SPE0028A323
R107	1291181	MEGWI-CH 5K6 F 0603 G BAW SPE0028A323
R112	1254332	MEGWI-CH 47K F 0603 G BAW SPE0028A323
R121	1227661	MEGWI-CH 0R 0603 BAW SPE0025A323
R122	1305131	MEGWI-CH 68K F 0603 BAW SPE0028A323
R123	1304161	MEGWI-CH 10R F 0603 BAW SPE0027A323
R124	1305131	MEGWI-CH 68K F 0603 BAW SPE0028A323
R131	1291181	MEGWI-CH 5K6 F 0603 G BAW SPE0028A323
R132	1297041	MEGWI-CH 10K F 0603 G BAW SPE0028A323
R151	1253700	MEGWI-CH 8K2 F 0603 G BAW SPE0028A323

R152	1304161	MEGWI-CH 10R F 0603 BAW SPE0027A323
R159	1304445	MEGWI-CH 1K F 0603 BAW SPE0028A323
R160	1304445	MEGWI-CH 1K F 0603 BAW SPE0028A323
R161	1304445	MEGWI-CH 1K F 0603 BAW SPE0028A323
R162	1304445	MEGWI-CH 1K F 0603 BAW SPE0028A323
R172	1304402	MEGWI-CH 470R F 0603 BAW SPE0027A323
R174	1285564	MEGWI-CH 4K7 F 0603 G BAW SPE0028A323
R1801	1226649	MEGWI-CH 680R F 1206 BAW SPE0015A323
R1802	1303521	MEGWI-CH 750R F 1206 BAW SPE0015A323
R1803	1303521	MEGWI-CH 750R F 1206 BAW SPE0015A323
R1804	1303521	MEGWI-CH 750R F 1206 BAW SPE0015A323
R1805	1303521	MEGWI-CH 750R F 1206 BAW SPE0015A323
R1806	1303521	MEGWI-CH 750R F 1206 BAW SPE0015A323
R1807	1303521	MEGWI-CH 750R F 1206 BAW SPE0015A323
R1809	1303538	MEGWI-CH 820R F 1206 G BAW SPE0015A323
R1810	1226649	MEGWI-CH 680R F 1206 BAW SPE0015A323
R1811	1226649	MEGWI-CH 680R F 1206 BAW SPE0015A323
R1812	1303538	MEGWI-CH 820R F 1206 G BAW SPE0015A323
R1813	1226649	MEGWI-CH 680R F 1206 BAW SPE0015A323
R1814	1226649	MEGWI-CH 680R F 1206 BAW SPE0015A323
R1815	1281811	MEGWI-CH 1K8 F 0603 G BAW SPE0028A323
R1816	1304496	MEGWI-CH 3K9 F 0603 G BAW SPE0028A323
R1817	1304496	MEGWI-CH 3K9 F 0603 G BAW SPE0028A323
R1818	1281811	MEGWI-CH 1K8 F 0603 G BAW SPE0028A323
R1829	1304437	MEGWI-CH 820R F 0603 BAW SPE0027A323
R1831	1304445	MEGWI-CH 1K F 0603 BAW SPE0028A323
R1832	1297058	MEGWI-CH 22K F 0603 G BAW SPE0028A323
R1833	1297058	MEGWI-CH 22K F 0603 G BAW SPE0028A323
R1836	1305158	MEGWI-CH 100K F 0603 BAW SPE0028A323
R1837	1305093	MEGWI-CH 1M F 0603 BAW SPE0028A323
R1841	1304283	MEGWI-CH 100R F 0603 BAW SPE0027A323
R1842	1254332	MEGWI-CH 47K F 0603 G BAW SPE0028A323
R1843	1305158	MEGWI-CH 100K F 0603 BAW SPE0028A323
R1844	1305158	MEGWI-CH 100K F 0603 BAW SPE0028A323
R1846	1305158	MEGWI-CH 100K F 0603 BAW SPE0028A323
R1847	1305158	MEGWI-CH 100K F 0603 BAW SPE0028A323
R1848	1297058	MEGWI-CH 22K F 0603 G BAW SPE0028A323
R1849	1304445	MEGWI-CH 1K F 0603 BAW SPE0028A323
R1851	1304331	MEGWI-CH 180R F 0603 BAW SPE0027A323
R1852	1304321	MEGWI-CH 150R F 0603 BAW SPE0027A323
R1854	1304402	MEGWI-CH 470R F 0603 BAW SPE0027A323
R1861	1313185	MEGWI-CH 51K F 0603 G BAW SPE 0028 A 323
R1862	1018302	MEGWI-CH 0R 0805 G BAW SPE0009A323
R1863	1314424	MEGWI-CH 1K1 F 0603 BAW SPE0028A323
R1864	1235397	MEGWI-CH 3K3 F 0603 G BAW SPE0028A323
R1865	1235397	MEGWI-CH 3K3 F 0603 G BAW SPE0028A323
R1866	1235397	MEGWI-CH 3K3 F 0603 G BAW SPE0028A323

R1867	1235397	MEGWI-CH 3K3 F 0603 G BAW SPE0028A323
R1868	1307185	NTCWI-CH 10K J 0,50W G SIE C621-Q63
R1869	1304461	MEGWI-CH 1K5 F 0603 G BAW SPE0028A323
R1870	1305158	MEGWI-CH 100K F 0603 BAW SPE0028A323
R1871	1305158	MEGWI-CH 100K F 0603 BAW SPE0028A323
R1872	1227661	MEGWI-CH 0R 0603 BAW SPE0025A323
R2000	1304364	MEGWI-CH 270R F 0603 BAW SPE0027A323
R2001	1304364	MEGWI-CH 270R F 0603 BAW SPE0027A323
R2003	1304364	MEGWI-CH 270R F 0603 BAW SPE0027A323
R2004	1304364	MEGWI-CH 270R F 0603 BAW SPE0027A323
R2005	1304364	MEGWI-CH 270R F 0603 BAW SPE0027A323
R2007	1297041	MEGWI-CH 10K F 0603 G BAW SPE0028A323
R2008	1304364	MEGWI-CH 270R F 0603 BAW SPE0027A323
R2009	1304364	MEGWI-CH 270R F 0603 BAW SPE0027A323
R201	1304331	MEGWI-CH 180R F 0603 BAW SPE0027A323
R2011	1304364	MEGWI-CH 270R F 0603 BAW SPE0027A323
R2015	1304364	MEGWI-CH 270R F 0603 BAW SPE0027A323
R2016	1304364	MEGWI-CH 270R F 0603 BAW SPE0027A323
R2017	1304364	MEGWI-CH 270R F 0603 BAW SPE0027A323
R202	1304356	MEGWI-CH 240R F 0603 G BAW SPE0027A323
R2020	1253700	MEGWI-CH 8K2 F 0603 G BAW SPE0028A323
R2021	1305001	MEGWI-CH 33K F 0603 BAW SPE0028A323
R2027	1304410	MEGWI-CH 560R F 0603 BAW SPE0027A323
R2028	1304402	MEGWI-CH 470R F 0603 BAW SPE0027A323
R2029	1304331	MEGWI-CH 180R F 0603 BAW SPE0027A323
R2030	1304402	MEGWI-CH 470R F 0603 BAW SPE0027A323
R2031	1304402	MEGWI-CH 470R F 0603 BAW SPE0027A323
R2032	1304331	MEGWI-CH 180R F 0603 BAW SPE0027A323
R2033	1304232	MEGWI-CH 47R F 0603 G BAW SPE0027A323
R2034	1314424	MEGWI-CH 1K1 F 0603 BAW SPE0028A323
R2035	1254022	MEGWI-CH 2K2 F 0603 G BAW SPE0028A323
R2036	1304471	MEGWI-CH 2K F 0603 G BAW SPE0028A323
R2037	1304445	MEGWI-CH 1K F 0603 BAW SPE0028A323
R2038	1304445	MEGWI-CH 1K F 0603 BAW SPE0028A323
R2039	1297041	MEGWI-CH 10K F 0603 G BAW SPE0028A323
R204	1250531	MEGWI-CH 200K F 0603 G BAW SPE0028A323
R2046	1297041	MEGWI-CH 10K F 0603 G BAW SPE0028A323
R2048	1305001	MEGWI-CH 33K F 0603 BAW SPE0028A323
R2051	1305018	MEGWI-CH 150K F 0603 BAW SPE0028A323
R2053	1282662	MEGWI-CH 180K F 0603 G BAW SPE0028A323
R2057	1305018	MEGWI-CH 150K F 0603 BAW SPE0028A323
R2059	1282662	MEGWI-CH 180K F 0603 G BAW SPE0028A323
R206	1227661	MEGWI-CH 0R 0603 BAW SPE0025A323
R2063	1305018	MEGWI-CH 150K F 0603 BAW SPE0028A323
R2065	1282662	MEGWI-CH 180K F 0603 G BAW SPE0028A323
R2068	1297041	MEGWI-CH 10K F 0603 G BAW SPE0028A323
R207	1305093	MEGWI-CH 1M F 0603 BAW SPE0028A323

R209	1305093	MEGWI-CH 1M F 0603 BAW SPE0028A323
R2096	1288393	MEGWI-CH 5K1 F 0603 G BAW SPE0028A323
R2097	1304283	MEGWI-CH 100R F 0603 BAW SPE0027A323
R2098	1297041	MEGWI-CH 10K F 0603 G BAW SPE0028A323
R2099	1297041	MEGWI-CH 10K F 0603 G BAW SPE0028A323
R210	1304161	MEGWI-CH 10R F 0603 BAW SPE0027A323
R2102	1304445	MEGWI-CH 1K F 0603 BAW SPE0028A323
R2103	1227661	MEGWI-CH 0R 0603 BAW SPE0025A323
R2104	1297041	MEGWI-CH 10K F 0603 G BAW SPE0028A323
R211	1258478	MEGWI-CH 15K F 0603 BAW SPE0028A323
R212	1254448	MEGWI-CH 27K F 0603 G BAW SPE0028A323
R214	1304445	MEGWI-CH 1K F 0603 BAW SPE0028A323
R215	1304496	MEGWI-CH 3K9 F 0603 G BAW SPE0028A323
R221	1235397	MEGWI-CH 3K3 F 0603 G BAW SPE0028A323
R222	1305158	MEGWI-CH 100K F 0603 BAW SPE0028A323
R223	1304410	MEGWI-CH 560R F 0603 BAW SPE0027A323
R224	1340409	MEGWI-CH 62R F 0603 G BAW SPE0027A323
R225	1226657	MEGWI-CH 1K F 1206 BAW SPE0016A323
R226	1226657	MEGWI-CH 1K F 1206 BAW SPE0016A323
R230	1254332	MEGWI-CH 47K F 0603 G BAW SPE0028A323
R301	1305050	MEGWI-CH 470K F 0603 BAW SPE0028A323
R302	1304232	MEGWI-CH 47R F 0603 G BAW SPE0027A323
R303	1018302	MEGWI-CH 0R 0805 G BAW SPE0009A323
R306	1254022	MEGWI-CH 2K2 F 0603 G BAW SPE0028A323
R307	1304161	MEGWI-CH 10R F 0603 BAW SPE0027A323
R309	1302728	MEGWI-CH 6K2 F 0603 G BAW SPE0028A323
R311	1304161	MEGWI-CH 10R F 0603 BAW SPE0027A323
R312	1304283	MEGWI-CH 100R F 0603 BAW SPE0027A323
R314	1304461	MEGWI-CH 1K5 F 0603 G BAW SPE0028A323
R315	1254022	MEGWI-CH 2K2 F 0603 G BAW SPE0028A323
R316	1304259	MEGWI-CH 68R F 0603 BAW SPE0027A323
R317	1304429	MEGWI-CH 680R F 0603 BAW SPE0027A323
R318	1254022	MEGWI-CH 2K2 F 0603 G BAW SPE0028A323
R319	1281811	MEGWI-CH 1K8 F 0603 G BAW SPE0028A323
R320	1304488	MEGWI-CH 2K7 F 0603 BAW SPE0028A323
R321	1281811	MEGWI-CH 1K8 F 0603 G BAW SPE0028A323
R322	1304461	MEGWI-CH 1K5 F 0603 G BAW SPE0028A323
R327	1227661	MEGWI-CH 0R 0603 BAW SPE0025A323
R328	1304399	MEGWI-CH 390R F 0603 BAW SPE0027A323
R329	1254022	MEGWI-CH 2K2 F 0603 G BAW SPE0028A323
R368	1227661	MEGWI-CH 0R 0603 BAW SPE0025A323
R369	1304445	MEGWI-CH 1K F 0603 BAW SPE0028A323
R370	1304445	MEGWI-CH 1K F 0603 BAW SPE0028A323
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R372	1304445	MEGWI-CH 1K F 0603 BAW SPE0028A323
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SP101	1031112	UEBERSPG-ABLEITER MMC DSP-201M-A21R
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ST900	1306162	STIFTLEISTE 8POL SAT TSW-104-06-T-D
T101	1258680	TRANSISTOR-CH TEL S949TR G

T102	1361848	TRANSISTOR-CH BAW BC857C G SPE0064A302
T153	1027931	TRANSISTOR-CH BAW BC807-40 SHIP-TO-STOCK
T1801	0659614	TRANSISTOR-CH BAW BC848B G SPE0003A
T1802	0675318	TRANSISTOR-CH BAW BC818-16 SHIP-TO-STOCK
T1803	1172646	TRANSISTOR-CH BAW KRC103S/DTC124 NP
T1804	0659614	TRANSISTOR-CH BAW BC848B G SPE0003A
T1805	1172662	TRANSISTOR-CH BAW KRC105S/BCR108/DT
T1806	1182821	TRANSISTOR-CH BAW KRC102S/DTC114 NP
T221	0659622	TRANSISTOR-CH BAW BC848C G SPE0004A302
T301	1180576	TRANSISTOR BAW J109/110 SELEKT.G SP
T302	0659622	TRANSISTOR-CH BAW BC848C G SPE0004A302
T303	1303317	TRANSISTOR-CH SAY 2SC2814 F4+F5 NPN G
T304	1361848	TRANSISTOR-CH BAW BC857C G SPE0064A302
T501	1172654	TRANSISTOR-CH BAW KRA103S/DTA124 PN
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T802	1172654	TRANSISTOR-CH BAW KRA103S/DTA124 PN
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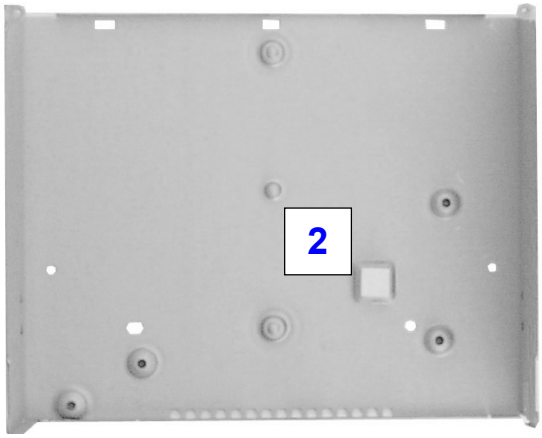
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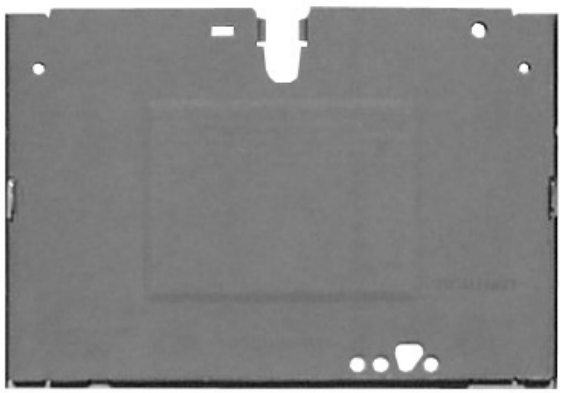
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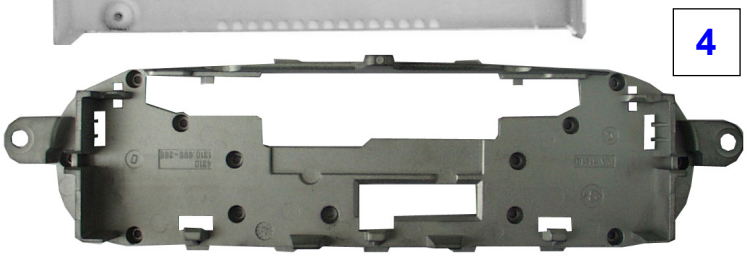
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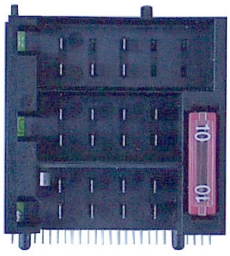
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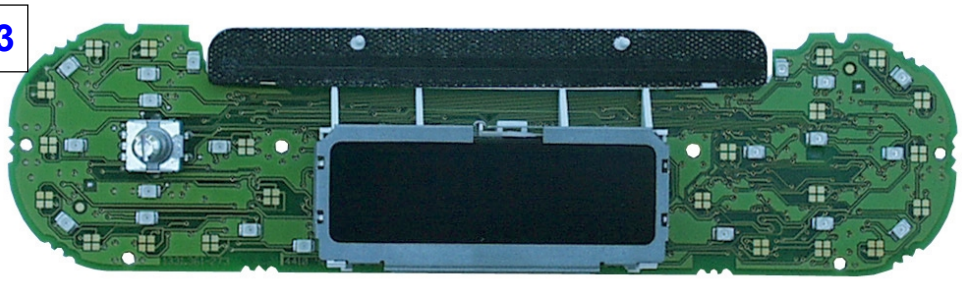
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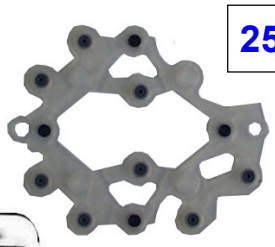
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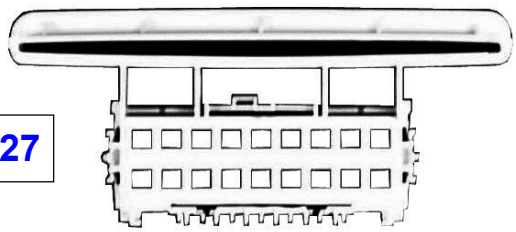
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